Blockchain, Ethereum & Web 3

Career Transformation Guide (2024 v1)

Salaries-Careers-Certifications-Trainings-Pubs-Forums

Success awaits you

Blockchain VIPs

Executive Summary

The mission of **Blockchain VIPs** is to equip and enable the next generation of Blockchain-related professionals and employers worldwide with skills and talent to achieve 21st century IT and financial goals. Key professional titles include Business Analyst, Architect, Developer, Programmer, Coder, Expert, Trader, Investor, and many others. Among the most common certifications are Certified Blockchain Architect (CCA), Certified Ethereum Expert (CEE), Certified Corda Architect (CCA), Certified Blockchain, Hyperledger Developer (CBHD) and the Certified Blockchain Security Professional (CBSP) credential - included in Section II of this report. This report covers Blockchain, Corda, DApps, Distributed Ledger (DLT), Ethereum, EOS, TRON, Quorum, Smart Contracts, Solanana, and Solidity technologies.. Our partnerships include Associates: Blockchain Council, Blockchain Hub, BlockGeeks, Ethereum.org and the Linux Foundation.

The new **Blockchain and Ethereum Career Transformation Guide** includes valuable information that enables you to accelerate your career growth and income potential - Career opportunities, Salaries (demand and growth), Certifications and Training programs, Publications and Portals along with Professional Forums and Communities. The Certification and Training programs are categorized by Blockchain, Ethereum and Web 3 including Decentralized Finance (DeFi), NFT & Metaverse.

Talent.com estimates average Blockchain Developer salaries in the US at $143,000. Udacity provides a comprehensive description of job titles, salaries and demand outlook for Blockchain developers. ZipRecruiter, the average blockchain developer salary in the U.S. is $154,550 annually with a range between $124,500 and $203,000, with skill, experience and location being major factors. New York City and the San Francisco Bay Area-Silicon Valley areas typically offer the highest salaries.

There are three critical success factors in our career transformation model. First, Get Certified. Professionals with best in-class skill sets combined with industry-leading certifications advance more rapidly than your peers and typically earn 3%-5% above their colleagues. Second, Get Published. Relevant, succinct and insightful articles on best practices in your technical domain or functional discipline enhance your credibility and integrity. And third, Get Connected. Developing and maintaining

a robust professional network - locally and globally - bolsters your career persona and positions you as the “go to” subject matter expert in your field.

I - Careers

Below are some of the most credible and popular sites for Blockchain, Ethereum and Web 3.0 career opportunities including job openings and long-term career paths.

- **Blockchain Council**
- **CoinTelegraph**
- **Consensys**
- **Cryptocurrency Jobs**
- **Dice**
- **Enterprise Ethereum Alliance**
- **Ethereum.org**
- **GlassDoor**
- **Global Blockchain Council (DMCC)**
- **Indeed**
- **SimplyHired**
- **Web 3**
- **ZipRecruiter**

II - Salaries

Glassdoor includes Reviews for some 108 Blockchain and 8 Ethereum positions. Indeed reports companies, salaries and open positions for Blockchain and Ethereum professionals across the US. According to ZipRecruiter there are 17,842 Blockchain and 236 Ethereum openings in the US. LinkedIn currently has 27,244 job listings for Blockchain and another 4526 Ethereum professionals.

Along with standard software development titles - such as Software Programmer, Software Engineer, Senior Developer, etc - the most common titles for Blockchain and Ethereum professionals include:

Blockchain:

- Blochain Architect
- Blockchain Engineer
- Blockchain Full Stack Developer
- Blockchain Research Engineer
- Blockchain Security Analyst
- Business Development Director for Crypto, Blockchain & NFT
- Crypto Blockchain Developer
- Senior Blockchain Engineer
- Senior Blockchain Software Engineer

Ethereum:

- Ethereum Engineering Manager
- Group Manager for Digital Assets Custody
- Lead Software Engineer for Ethereum & Blockchain
- Senior Ethereum Engineer
- Smart Contract Developer for Solana & Ethereum
- Smart Contract Developer for Solidity/DEXs
- Staff Software Engineer for Ethereum Integration
- Technical Ethereum Product Manager

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According to Skillsoft's most recent IT Skills and Salary Report here are "The 20 Top-Paying IT Certifications Going into 2024" (Skillsoft, 2023):

Rank #14 BTA CERTIFIED BLOCKCHAIN SECURITY PROFESSIONAL (CBSP)

AVERAGE ANNUAL SALARY: $129,185

With a limited number of qualified blockchain professionals in the market, the salaries being offered are highly competitive.

Conclusions:

1. Our premise is that professionals with currency-relevant certifications earn approximately 5%-8%+ more than their peers.
2. The rapid global adoption of Bitcoin and cryptocurrencies is fueling a heightened demand for Blockchan and Ethereum developer-engineers worldwide.
3. As Blockchain and Ethereum technologies move from early adopter to mass market maturity demand for certified staff will increase proportionately.
4. Demand for developers in the rapidly emerging Web 3.0, Metaverse and Solidity arenas will outpace - while directly related - growth for Blockchain and Ethereum developers-engineers.
5. With the supply-demand "imbalance" for qualified professionals over the next 3-5+ years career and income opportunities strongly favor candidate job seekers vis–vis employers.

Certified Blockchain and Ethereum experts will have virtually unlimited growth potential during the coming decade. Take advantage of this generational technology trend and enjoy the rewards.

(Note: Access the complete Skillsoft-Global Knowledge 2023 IT Skills and Salary Report here).

III - Certification & Training

Blockchain & Ethereum

Become a Blockchain Developer: Creating your own private blockchain using Node.js and Leveldb (Project: Create Your Own Private Blockchain), Ethereum Smart Contracts, Tokens and Dapps - advance your blockchain skillset to the second generation of blockchain services with smart contracts utilizing the Ethereum network (Project: Build CryptoStar DApp on Ethereum), .Blockchain Architecture - learn blockchain architecture and advanced concepts such as privacy, security and decentralized file management (Project: Ethereum DApp for Tracking Items Through Supply Chain), Dapp with autonomous smart contracts and oracles - strengthen your blockchain skill set by developing a decentralized application (DApp) that will perform actions based on external triggers, and handle payments (Project: Flight Delay Insurance DApp), and Capstone Project - build decentralized property listing application. {Udacity}

Blockchain Applications and Smart Contracts - Developing with Ethereum and Solidity: Learn to code a smart contract, create a test network to test applications without cost and how to launch a smart contract in a live network. Skill-based training modules address: 1) Introduction to Blockchains and Smart Contracts - Explain the history of blockchain technology, Understand the consequences of double-spending avoidance, Appreciate objectives of different blockchains, Add smart contracts to blockchains, Determine relevant smart contract use-cases, 2) Ethereum: A Smart Contract Blockchain -

Ethereum as a blockchain for smart contracts, use Truffle as a smart contract development tool [hands on demo], explain Ethereum addresses and transactions [hands on demo], understand the relationship between Ether and Gas, 3) Solidity: A Contract-Oriented Language - explain the structure of a Solidity smart contract [hands-on demo], use Solidity declarations [hands-on demo], utilize Solidity function modifiers [hands-on demo], understand Solidity error-checking [hands-on demo], 4) Testing, Debugging, and Deploying Smart Contracts - test smart contracts on a personal blockchain [hands-on demo], debug smart contracts [hands-on demo], deploy smart contracts on a test and live network, 5) Smart Contracts Example: A Custom Token in Ethereum - create a token framework and a minimum viable token, and allocation approvals along with owner privileges. {InformIT}

Blockchain Developer Certification: This program is curated by top industry experts and is designed to meet the industry benchmarks. This Blockchain course will introduce you to the concepts of Blockchain and its platforms such as Bitcoin, Ethereum, Hyperledger, and MultiChain. This is a fully immersive, instructor-led training & helps you master the Ethereum ecosystem, with hands-on demonstrations. Enroll now in this course & become a certified Blockchain professional. Skill based training modules include: 1) Origin And Working Of Blockchain, 2) Cryptocurrency and Blockchain Bitcoin Platform, 3) Bitcoin Mining, 4) Introduction To Ethereum, 4) Basic Solidity, 5) Advanced Solidity, 6) Developing A DApp Using Truffle, 7) Hyperledger, 8) Setting Up Development Environment Using Hyperledger Composer, 9) Create And Deploy Your Private Blockchain On MultiChain, and 10) Prospects Of Blockchain. {Edureka}

Blockchain Developer: Work with the Bitcoin and Ethereum protocols, build projects for real-world application, and gain the essential skills for a career in this dynamic space. Learn the fundamentals of the blockchain platform. Create your own private blockchain, and secure a digital asset using blockchain identity. Explore the Ethereum platform, and use Solidity and smart contracts to develop your own decentralized app. Training modules with hands-on projects include: 1) Blockchain Fundamentals - learn the basics of how the blockchain data model works by creating your own private blockchain using Node.js and Leveldb (Project: Create Your Own Private Blockchain), 2) Ethereum Smart Contracts, Tokens and Dapps - second generation of blockchain services with smart contracts utilizing the Ethereum network (Project: Build CryptoStar Dapp on Ethereum), 3) Blockchain Architecture - learn

blockchain architecture and advanced concepts such as privacy, security and decentralized file management (Project: Ethereum Dapp for Tracking Items through Supply Chain), 4) Dapp with autonomous smart contracts and oracles - develop a decentralized application (Dapp) that will perform actions based on external triggers, and handle payments (Project: Flight Delay Insurance Dapp), and 5) Capstone Project - use all the new skills you've acquired to build decentralized property listing application. {Udacity}

Blockchain: Foundations and Use Cases: Introduction to Blockchain and the technology behind it. In module four, we'll go beyond bitcoin and delve deeper into a next-generation blockchain called Ethereum to introduce you to what modern blockchains can do. The use cases featured in the final module are drawn from among the businesses in ConsenSys portfolio. We believe we're uniquely positioned to present you with a valuable behind-the-scenes look at the people and companies working in this space to help give you a better understanding of the business side of blockchain. Together, we'll examine businesses use cases, hear from industry leaders, and give you the opportunity to develop and analyze a use case yourself. With this course, not only will you be the one who is able to explain blockchain to your colleagues, you'll be well on your way to making educated business decisions with your new, foundational understanding of the technology. {Consensys Academy}

Blockchain Platform: Understand the Blockchain ecosystem. Learners are introduced to other blockchain platforms, details of two decentralized application use cases, and challenges such as privacy and scalability. They are prepared to discuss permissioned blockchain architectures of Hyperledger and Microsoft Azure's blockchain as a service model and analyze the Augur and Grid+ decentralized application platforms. Course material includes emerging alternative decentralization models such as IPFS and Hashgraph, challenges in broader blockchain adoption, and continuous improvement solutions. {State University of New York}

Certified Blockchain Architect (CBA): CBA training entitles you to utilize your expertise to make important decisions related to the Blockchain projects and craft the guidelines and structure of the whole blockchain system. With the aid of this certification, Blockchain Architects will be better able to put their theoretical and practical knowledge to use and get hands-on experience with all areas of Blockchain development. It will serve as a demonstration of your experience in the blockchain industry.

You will also have the necessary exposure to develop the skills necessary to decide wisely about various blockchain initiatives. As a Certified Blockchain Architect, you will have an advantage when creating and constructing Blockchain-based solutions for corporations and enterprises. {Blockchain Council}

Certified Blockchain and Digital Marketing Professional (CBDMP): Gain expertise on eliminating digital marketing middlemen, eliminating online ad fraud, building trust and transparency while giving customers full control of their information with the use of Blockchain technology. Obtain a globally acknowledged certification, an in-depth understanding of Blockchain in digital marketing, enhance your expertise to achieve success in digital marketing, and uild your own Blockchain enterprise with acquired knowledge. {Blockchain Council}

Certified Blockchain and Healthcare Professional (CBHP): Major breakthrough in the healthcare industry, especially in terms of Health Information Exchange, by improving data integrity, regulatory compliance, and privacy. Once you successfully complete the Certification, you can have various opportunities in your professional growth. You can be a QA Engineer, Technology Architect, Engineering Manager or a Front-end and Back-end Engineer.
Blockchain Council}

Certified Blockchain and Human Resources Professional (CBHRP): Equips HR professionals in talent management, verifying the accreditation of potential hires, safeguarding of employee health records, and performance evaluation. A Certified Blockchain and HR Professional™ is one who uses Blockchain to gain an accurate picture of the overall performance of the employees and business, in general. He assists enterprises in digitizing their human resources using the Blockchain technology which helps store information in a secure, decentralized, and immutable manner. {Blockchain Council}

Certified Blockchain and Know Your Customer Professional (CBKYCP): speed up and streamline the procedure of digital identity verification, cross border payments, syndicate lending and to reduce anti-money laundering activities in the banking sector. As the market for Blockchain professionals is increasing in the financial sector, this certification will show to be your competitive supremacy over others.{Blockchain Council}

Certified Blockchain and Law Professional (CBLP): Expedite and streamline the process of tracing digital documents for evidence and automate the agreement process using smart contracts. Acquire a Blockchain Council Certification, lifetime access to the course content, 24*7 Support for all your queries, and Hands-on industry project experience. {Blockchain Council}

Certified Blockchain and Supply Chain Professional (CBSCP): Understand how Blockchain can be leveraged to increase revenue, decrease costs, improve quality, production. Training modules include: Introduction to Supply Chain Management, Fundamentals of Blockchain Technology, Integration of Blockchain with Supply Chain Management, and Certified Blockchain & Supply Chain Exam. {Blockchain Council}

Certified Blockchain Business Foundations (CBBF): Blockchain Business Models and Analysis. The CBBF exam is an elite way to demonstrate your skill set in Blockchain with an understanding how Blockchain works and how to implement Blockchain in business.{Blockchain Training Alliance}

Certified Blockchain Developer (CBD): Equipped in Blockchain, Multichain, Ethereum, Hyperledger, Stellar and Corda. Know what it means to be a Certified Blockchain Developer, learn about Ethereum, IPFS, Hyperledger and R3 Corda, explore how to deploy Ethereum Smart Contract on Hyperledger Fabric, and gain an in-depth knowledge on R3 Corda.{Blockchain Council}

Certified Blockchain Developer - Ethereum (CBSE): Ethereum platform - Plan and prepare production ready applications for the Ethereum blockchain, Write, test, and deploy secure Solidity smart contracts, Understand and work with Ethereum fees, Work within the bounds and limitations of the Ethereum m blockchain, and Use the essential tooling and systems needed to work with the Ethereum ecosystem. {Blockchain Training Alliance}

Certified Blockchain Developer - Hyperledger Fabric (CBDH): Blockchain Hyperledger Development, Plan and prepare production-ready applications for the Hyperledger blockchain, Write, test, and deploy secure chain code, Understand how to use Hyperledger Composer to rapidly build

Hyperledger applications, and Write chain code using either Go or NodeJS. {Blockchain Training Alliance}

Certified Blockchain Expert (CBE): CBE is exhaustive training, an exam-based Blockchain certification aiming to impart in-depth practical knowledge in Blockchain technology. This training program will walk you through the various components of Blockchain technologies and how they affect enterprise imperatives. In addition, you'll learn how to interact with business executives in a practical way and match their needs with pragmatic and immediately effective solutions, with decentralization at their heart. Overall, this certification will offer you a major competitive advantage. {Blockchain Council}

Certified Blockchain Security Professional (CBSP): Blockchain's inherent security features and associated risk, best practices, known Blockchain cyber-attacks, differentiate between Blockchain cyber-attacks and threat mitigation {Blockchain Training Alliance}

Certified Blockchain Solution Architect (CBSA): Learn to prepare for the Blockchain Training Alliance Certification-Certified Blockchain Solutions Architect (CBSA), how to use blockchain basics such as components, terminology, and ledgers, understand why the blockchain is revolutionizing how businesses and governments are looking at technology to create efficiencies, understand why Ethereum is widely used and discuss the technical merits of the technology platform, and why Hyperledger is widely used and discuss the technical merits of the technology platform. Skill-based training modules include: 1) Certified Blockchain Solutions Architect, 2) Blockchain and CryptoCurrency, 3) Blockchain Consensus Algos, 4) Blockchain Use Cases, 5) "Ethereum Blockchain Platform, 6) Ethereum Consensus, 7) Ethereum Value, 8) Ethereum Value, 9) Ethereum Development Environment, 10) Ethereum Development Environment, 11) Hyperledger Blockchain Platform and Project, 12) Hyperledger Project Structure, 13) Hyperledger Value, and 14) Hyperledger Development. {Pearson IT}

Certified Blockchain Solution Architect (CBSA): Blockchain Architecture, CBSA exam is a 70 question multiple-choice exam that lasts 1.5 hours and is a performance-based evaluation of Solution Architect skills and knowledge. {Blockchain Training Alliance}

Certified Corda Architect (CCA): Build architectural knowledge to make important decisions related to the Corda projects and craft the guidelines and structure of the whole Corda system. Certified Corda Architect training is an expertly curated and excellently designed training, rendering profound knowledge on various aspects of Corda Blockchain platform. Getting certified as a Corda architect will transform your career. {Blockchain Council}

Certified Corda Expert (CCE): Expertly curated and excellently designed training, rendering profound knowledge on various aspects of Corda blockchain platform. Training modules include: 1) Introduction to Blockchain, 2) Introduction to Corda, 3) Data Structure of Corda, 4) Understanding Corda, 5) Requirements of Corda, 6) Crafting Corda Network, 7) Understanding Corda Transactions, and 8) Certified Corda Expert Exam. {Blockchain Council}

Certified Ethereum Expert (CEE): Understanding of Ethereum Blockchain, Smart Contracts and Decentralized applications, use cases and transfer or mitigate Blockchain for businesses and enterprises. Training modules include: Introduction to Blockchain, Introduction to Corda, Data Structure of Corda, Understanding Corda, Requirements of Corda, Crafting Corda Network, Understanding Corda Transactions, and Certified Corda Expert. {Blockchain Council}

Certified Hyperledger Developer (CHD): Grasp Hyperledger Fabric and Composer. Businesses can leverage the Hyperledger technology to enhance internal data integrity. Certified Hyperledger Developer Training equips individuals with the essential knowledge and expertise to work as hyperledger developers. The purpose of this program is to establish and govern the minimum standards for credentialing Hyperledger Developers who specialize in enterprise development measures. {Blockchain Council}

Certified Hyperledger Expert (CHE): This Hyperledger certification will cover all the details regarding the architecture of hyperledger fabric and composer. It will also help you to understand the hyperledger family, so you can begin building blockchain applications on top of the hyperledger platform. Understand Hyperledger Fabric, get started with Hyperledger Fabric Architecture, grasp the Framework of Hyperledger Fabric, understanding and designing the framework of Hyperledger Composer, and Certified Hyperledger Expert (CHE) Exam. {Blockchain Council}

Certified Metaverse Professional (CMP): The new CMP certification focuses on enhancing the skills and knowledge of candidates who wish to work on metaverse platforms and assets. The Certified Metaverse Professional certification training course provides an in-depth overview of the technical foundations of the metaverse. Learners will come closer to the metaverse through insights on the use cases of the metaverse and its relationship with web3. Grow as a metaverse professional and develop a thorough understanding of everything you can do with the metaverse with the new metaverse professional certification. Learn Blockchain and NFT fundamentals, Metaverse basics and its potential, the technology behind the metaverse, challenges and benefits of NFTs in the metaverse, the relationship between the metaverse and web3, and best practices and considerations for metaverse investments. {101 Blockchains}

Certified Quorum Developer (CQD): Quorum development is a highly sought after skill as Quorum addresses specific challenges to blockchain technology adoption within the financial industry. Certified Quorum Developer certification is designed to render knowledge on Quorum from very basics to advanced level. The certification covers topics such as Quorum ecosystem, Quorum Network, Quorum Transaction processing, and privacy, Quorum Contracts, Quorum consensus, Setting up a quorum environment, and more. Getting certified as a Quorum developer will fuel your career growth. {Blockchain Council}

Certified Quorum Expert (CQE): Quorum is an enterprise-focused, private-permissioned blockchain infrastructure specifically designed for commercial use cases. Training modules cover: Introduction to Blockchain Technology, What is Blockchain?, Introduction to Ethereum, Introduction to Quorum, Quorum Ecosystem, Quorum Network, Quorum Transaction Processing and Privacy, Quorum Contracts,

ZSL: Zero-knowledge security Layer, Requirement for Quorum, Setting up the Quorum Environment, Use Case, and the Certified Quorum Expert Exam. {Blockchain Council}

Certified Smart Contract Developer (CSCD): Understand deeply what Smart Contracts are and how to create them wisely over any Blockchain platform by programming it over Solidity. Earning this certification will entitle you to become a smart contract developer, which is an extremely in-demand skill in the international job market currently. {Blockchain Council}

Certified Solidity Developer (CSD): Solidity is the native language of ethereum which gives enterprises the complete advantage of launching projects on the ethereum blockchain platform. Certified Solidity Developer Certification is an exclusive exam-based certification, developed with the aim to offer a comprehensive knowledge of smart contract development through solidity. The curriculum has been put together by industry experts. Earning this certification will entitle you to become a smart contract developer, which is an extremely in-demand skill in the international job market. Certified Solidity Developer certification will revamp your career in Blockchain space. {Blockchain Council}

Complete Ethereum Technology Ethereum is the second biggest blockchain network, with additional capabilities for decentralized application and smart contract development. You can learn everything about the technical side of Ethereum with 101 Blockchains' Complete Ethereum Technology Course. The course features a detailed overview of how Ethereum works and also the methods for deploying smart contracts. The primary objective of the Complete Ethereum Technology course is to offer a trustworthy learning resource to help you become an Ethereum expert. This course includes a thorough overview of all the technical components of Ethereum driving its functionalities and use cases. Starting from Ethereum basics and the technical components in its working, this course also delivers a possible roadmap for the future of Ethereum. Begin your journey in the Ethereum landscape with the trusted Ethereum technology course. The program includes an Introduction to Ethereum, Ethereum tools and Ethereum test networks, Ethereum addresses and Ethereum accounts, Smart contracts and the use of Solidity programming language, Tokens in Ethereum, Ethereum transactions and Ethereum roadmap, Blocks and mining in Ethereum, Ethereum, PoW consensus algorithm, Beacon Chain and Proof of Stake consensus, and Decentralized applications or dApps and DAOs. This course is a one-stop destination for

those who seek comprehensive knowledge on Ethereum. You can find a detailed introduction to Ethereum fundamentals, including the tools, test networks, and addresses. The course also reflects on the smart contract functionalities of Ethereum with practical implications of Solidity programming language for smart contract development. The course also offers insights on Ethereum tokens, transactions, blocks, and mining, as well as Ethereum consensus. You will also gain inputs on dApps and the Ethereum roadmap alongside an explanation of Beacon Chain and Proof-of-Stake consensus. {101 Blockchains}

Cryptocurrency Fundamentals: Learn the basics of cryptocurrency and the ways in which blockchain technology empowers cryptocurrencies, iIdentify the value and relevance of cryptocurrency for the conventional financial infrastructures, review the crypto ecosystem and identify the key players, regulatory advancements, privacy implications, and applications, and evaluate the risks associated with crypto and the ways to use blockchain analysis for risk management. This program will equip you to Cryptocurrency historical background, and how they work, introduce you to different cryptocurrencies and Ethereum tokens, interact with cryptocurrencies and consensus mechanisms, use cases of crypto in NFTs, DeFi, and the metaverse and risks involved in the domain of crypto. {101 Blockchains}

Corda Development: This program is for aspiring blockchain developers with an in-depth dive into concepts related to development with R3 Corda. It Includes real-world insights in this beginner's guide on Corda development so you learn more than just the basics of Corda. This course features an extensive review of the use cases of Cords and how it delivers value, as well as asset creation and smart contract development and also directs learners towards the best practices for implementing Legal Prose and offers guidance on becoming a certified Corda developer. Topics include the network architecture of Corda, key Concepts and Terminology, how to create assets and smart contracts, how to make transactions, how Legal Prose is implemented, proper use cases for Cords and how to become a Certified Corda Developer. {101 Blockchains}

Developing Applications on Ethereum Blockchain: Learn to develop applications for the Ethereum platform. This course will teach you core skills for writing smart contracts using the Solidity

programming language. You will also learn how to develop decentralized applications with Ethereum. First, you will learn the fundamentals of Ethereum and decentralized applications. Then, you will see how to develop smart contracts that allow executing custom code on the Ethereum blockchain. Finally, you will explore how to build web applications that use Ethereum as a backend. When you finish this course, you will have a foundational understanding of the Ethereum blockchain knowledge that will help you immensely as you move forward and create your decentralized applications. Skill-based training modules include: 1) Ethereum Protocol, 2) Getting Started with Smart Contracts, 3) Solidity Programming Language, 4) Ethereum API, 5) Blocks and Fees, 6) Truffle Framework, 7) Developing Advanced Smart Contracts, 8) Reusing Code in Smart Contracts, and 9) Web Applications with Ethereum. {Pluralsight}

Deploying Hyperledger Fabric with AWS Blockchain Templates: Enterprise-grade blockchains which offer known peers, better security, and predictable transaction commits are now the norm. Hyperledger Fabric is a viable alternative which overcomes many of the drawbacks that have bedeviled the Ethereum framework. Learn to build, deploy and use Hyperledger Fabric networks on the AWS cloud. In this course, Deploying Hyperledger Fabric with AWS Blockchain Templates, you'll learn how to use Cloud Formation templates on AWS with Docker containers to quickly build Hyperledger Fabric networks to run chain code. First, you'll discover the Hyperledger umbrella of frameworks and tools and develop an understanding of the Hyperledger Fabric network which is composed of peers with known identities. You'll see how Fabric's transaction lifecycle and consensus algorithm separates endorsing peers from committing peers and how this structure overcomes many of the drawbacks of Ethereum. Next, you'll learn the basic structure of a Fabric blockchain network on AWS and see how we can use AWS blockchain templates to quickly bring up a Fabric network on the AWS cloud. You'll connect to and work on this network from your local machine. Finally, you'll write chain code in the Golang programming language for a vehicle registry and see how we can invoke transactions on our blockchain using the command line interface. By the end of this course, you'll have a good understanding of how you can use AWS to build your own enterprise-grade blockchain networks and write chain code to update your Fabric blockchain. Lessons address: 1) Introducing Hyperledger Fabric, 2) Using AWS Blockchain Templates for Hyperledger Fabric, and 3) Building an Application for the Hyperledger Fabric Network. {Pluralsight}

Enterprise Blockchain Templates: Decision-making tools to help assess if and when Blockchain technology is a proper fit for your company. They guide you through the process and make sure you are asking the correct questions, and checking all the boxes. These actionable templates are constructed to reflect the foundational elements of Blockchain: They are Immutable, Distributed and Decentralized. Template - 1: Do You Need Blockchain? This template presents the user with a list of items that represent the typical selection criteria of a blockchain solution. Template - 2: Blockchain Project Readiness: This tool is based on the user's self-assessment regarding preparations and key actions required to complete the task of Identifying the underlying business issues. Template - 3: Presenting an Enterprise Blockchain Project: This template enables you to make an effective presentation by outlining key points that an enterprise decision-maker has to know to consider your proposed solution. Template - 4: Mapping Enterprise Blockchain vs. Supply Chain Business Processes: Provides you the practical guidance to assess which processes of a supply chain are best candidates for an enterprise blockchain-based implementation project. Better decision-making will help ensure the success of your Blockchain projects. {101 Blockchains}

Hedera Fundamentals Learn about this alternative public distributed ledger technology. If you want to learn all about the Hedera consensus mechanism alongside an in-depth overview of its working, this course is the right pick for you. Find out why Hedera Hashgraph has evolved as a formidable alternative to public blockchain networks. Build your knowledge about the use cases, governance, and ecosystem of Hedera with engaging video lectures, practical demos, and a hands-on learning experience. Gain an in-depth understanding of hashgraph and its working, learn how to communicate hashgraph to clients and colleagues, study use cases, governance, and the applications of Hedera Hashgraph and become an expert in Hedera Network Services. Skill-based training modules include: 1 - Technology / Terminology Overview, What are distributed ledger technologies (DLTs)?, DLTs vs Blockchain, Different kinds of Ledgers, 2 - Hedera Overview, Hedera Origin & History, Hashgraph Consensus Algorithm, The Hedera Advantage, Hedera Cryptocurrency and Governing Council, 3 - Hedera Governance and Applications, Use cases, Roadmap, Hedera Resources, Myths, 4 - Hedera Services Explained, Hedera Architecture & Services, Consensus Service, Token Service, Infrastructure & Core Concepts, Service Fees, 5 - Hedera

Stable Coin Use Case, Understanding Stablecoin, Stablecoin use-case: overview and architect, 6 - Hands-On, Stablecoin Transfer API Interactions, Environment set up and projects (Token emission, Transaction consensus), and 7 - Final Exam and more resources. {101 Blockchains}

Hyperledger Fabric Development (Intermediate Level): Hyperledger Development Readiness - Development Tools, Best Practices, Github, Hyperledger Development Tools - Whiteboard - Deployment Considerations, Membership Services, Whiteboard Peers and Nodes, Whiteboard Channels, Ledger and Database Options, Whiteboard Queries, Certificates, Kafka/Raft and Interfaces, Writing Chaincode - Chaincode Development, Whiteboard - Development Considerations, Chaincode Lifecycle and an Interactive Exercise, 4) Writing a Blockchain App. {101 Blockchains}

Online Degree™ in Blockchain: Will equip you with in-depth knowledge of Blockchain technology. Backed by the extensive practical based sessions, completion of this blockchain degree ensures to render you the required competence to have a successful career in the Blockchain sphere. As Blockchain technology has taken the digital world by storm, the future of Blockchain technology is promising. Becoming a master in Blockchain technology by going through Online Degree™ in Blockchain unfolds the world of opportunities for you. Skill-based training modules cover: 1) Origin of Blockchain Technology, 2) Introduction to Blockchain, 3) Tokenize Everything, 4) Blockchain Ecosystem, 5) Blockchain Mining, 6) Transactions UTXO Vs Account Model, 7) Security and Privacy, 8) Other Consensus, 9) Mechanisms in Blockchain, 10) Blockchain Solutions - Steps and measures, 11) Use-Cases of Blockchain, 12) Ethereum, 13) IPFS, 14) Hyperledger, 15) R3 Corda, and 16) Final Exam. {Blockchain Council}

Polygon Fundamentals: Gain in-depth insights on Polygon transactions as well as the best practices for the development of the Polygon blockchain. With the new Polygon training course, you will get the benefits of engaging video lectures, demo videos, and whiteboard exercises that will help you learn about Polygon in detail. Any individual interested in the potential use cases of Polygon for the future of blockchain and crypto will benefit from this course. Topics include Introduction to the Polygon project, Polygon transaction costs and use cases, Components in Polygon architecture, Polygon PoS and hybrid

security model, Overview of transactions workflow in Polygon, and an Introduction to Polygon development. {101 Blockchains}

Practical Blockchain and Cryptocurrency: This program is your complete guide to learning and incorporating practical crypto and blockchain knowledge and skills for your company's systems. Unlike some other courses, *Practical Blockchain and Cryptocurrency LiveLessons* focuses on real-world applications, so you can learn with hands-on demos. In this course you will learn how to: Buy, trade, mine your own, and use cryptocurrency, including Bitcoin, Ripple, and DOGE, Create your own blockchains for internal enterprise IT applications, Create and execute your own smart contracts, and Learn how to perform cybersecurity audits on Blockchains. Understand how popular cryptocurrencies work including Bitcoins and ETH, as well as professionals needing to implement their own blockchain applications or mine cryptocurrencies, and cybersecurity professionals who need to test and audit Blockchain applications. The course concludes with topics of modern cyber attacks in cryptocurrency and blockchain space. You will have the tools needed to test your own blockchain applications and understand how to protect them against future attacks.Expert author and trainer Aamir Lakhani will give you hands-on practical experience to become a blockchain and cryptocurrency engineer and architect. Skill-based lessons include: 1) Introduction to Cryptocurrencies, 2) The Blockchain, 3) Mining, 4) Blockchain Applications, 5) Cyber Attacks, and 6) Evolution of Cryptocurrency and Blockchains. {InformIT}

Smart Contracts: Learn to design and program smart contracts in Solidity language, test and deploy them in the Remix development environment, and invoke them from a simple web interface that Remix provides. This course features best practices for designing solutions with smart contracts using Solidity and Remix IDE. Training modules: 1) Smart Contract Basics - introduce the reasons for a smart contract and its critical role in transforming blockchain technology from enabling decentralized systems. Explore the structure and basic concepts of a smart contract through examples, and illustrate Remix (remix.ethereum.org) web IDE for deploying and interacting with a smart contract, 2) Solidity - master the basics of Solidity, a high-level language that is a combination of Javascript, Java and C++. It is specially designed to write smart contracts and to target the Ethereum Virtual Machine. Learners will be

able to follow demonstrations and practice using Solidity, 3) Putting it all Together - development of the Ballot smart contract incrementally to illustrate various features including time dependencies, validation outside the function code using access modifiers, asserts and require declarations, and event logging, and 4) Best Practices - evaluating whether a blockchain-based solution is suitable for your problem, designing Solidity smart contracts, and those relating to Remix IDE. {State University of New York}

Web 3 - Decentralized Finance (DeFi), NFT & Metaverse

Blockchains, Tokens, and The Decentralized Future: Dive into the transformative world of blockchain with our course, designed to navigate the complexities of digital currencies, smart contracts, and decentralized applications. Whether you're intrigued by Bitcoin, Ethereum, or the broader implications of blockchain for industries and governance, this course offers deep insights and practical knowledge to leverage blockchain technology for innovation and problem-solving. Perfect for both beginners and seasoned enthusiasts, it's your gateway to mastering the blockchain ecosystem and its burgeoning impact on the digital age. Training modules include: 1) Blockchain, Bitcoin and the Bitcoin Network, 2) Ethereum, Smart Contracts and Evolving Ethereum Ecosystem, 3) Tokens, DAOs and Web3, and 4) Decentralization in Action: Governance, Finance, Healthcare and Non-Profits. {University of Illinois}

Certified DeFi Expert: This certification is designed to learn and understand DeFi (Decentralized Finance) from fundamental perspectives, thereby building a foundation of knowledge about DeFi processes and tools. The main objective of this certification is to give you access to the skills needed to prosper in the newly emerging world of financial systems. As the field of Decentralized Finance evolves with time, this certification will make sure that you benefit from gaining in-depth awareness of DeFi, its services and apps, its lending protocols, and use cases. This comprehensive exam-based certification will give you an elaborate understanding of DeFi so that you can make informed choices on your professional front. Learn how DeFi works, Understand why DeFi is important in the digital world of finance, Gain knowledge about DeFi Platforms, and Explore DeFi use cases. {Blockchain Council}

Certified Metaverse Expert (CME): The certification aims to provide a deeper understanding of the Metaverse and offer you a glimpse of the emerging future of the Web and the way we will interact with it. Successful completion of this certification will enable you to comprehend Metaverse in a more effective manner, giving you a significant advantage in the newly emerging digital world. Overall, you will gain insights and following key points: Know what it means to be a Metaverse Expert. Explore various technologies involved in Metaverse, learn how you can get started with Metaverse, explore different Use Cases of Metaverse. Training modules include: Introduction to Metaverse, Technologies Involved in the Metaverse, Blockchain Adoption in Metaverse, Tools Required to Build Metaverse, Use-cases and the Certified Metaverse Expert™ Exam. {Blockchain Council}

Certified Mixed Reality Expert: Certified Mixed Reality Expert™ certification aims to provide advanced knowledge in the field of Mixed reality, which combines augmented reality and virtual reality. This course focuses on delivering AR, VR, and MR development techniques alongside its architecture and real-time examples to understand the mixed reality concepts. Grasp an in-depth understanding of mixed reality, gain a detailed overview of AR and VR, and understand different use cases of mixed reality. Training modules include: 1) Augmented Reality Technology Architecture, 2) Virtual Reality Technology Architecture, 3) AR/VR Programming Languages, 4) Mixed Reality Architecture, 5) Use Cases, 6) Mixed Reality in Future and 7) the Certified Mixed Reality Expert™ Exam. {Blockchain Council}

Certified NFT Developer: This certification aims to provide a deeper understanding of NFTs, and will help you in building different kinds of projects, using NFTs. The goal of this certification is to set and enforce minimum requirements for NFT developers who specialize in enterprise development measures.This certification will make sure that in addition to gathering extensive skills, you also gain insights in the NFT domain, and therefore use the acquired knowledge to build NFT-based platforms for enterprises and businesses. Successful completion of this certification will enable you to comprehend Ethereum-based platforms for Non-Fungible Tokens, giving you a significant advantage in the Blockchain field. Skill-based training modules - mapped to the certification exam include: 1) Introduction to Certified NFT Developer, 2) A Guide to Tokens, 3) Ethereum Tokens, 4) Understanding the Non-Fungible Tokens (NFT), 5) NFT Technology Stacks, 6) Operations on NFT, 6) Walkthrough -

NFT Marketplace, 7) History of Non-Fungible Tokens, 8) Prerequisites & Installation, 9) Projects Building NFT Game, NFT Marketplace on Polygon with ReactJS, Building NFT Book Store and End-To-End NFT Project [Advanced Collectable], and 10) The Certified NFT Developer Exam. {Blockchain Council}

Certified Web3 Game Developer™: With the growth in supporting tech, the future of Metaverse seems to resemble the real world in more ways than imaginable. Participation of major businesses in the Metaverse indicates an acceleration in lucrative job opportunities. With the help of this certification, you will understand the functionalities and operations of Metaverse and learn how to develop and build Metaverse and blockchain-based applications. As a Certified Metaverse Developer, you will have the advantage of being able to understand the workings of different technologies and tools in Metaverse at a much deeper level. Training modules address: 1) Introduction to Web3 Game Developer, 2) Overview of the Ecosystem, 3) The Decentralized Gaming Evolution - GameFi, 4) Game Development Process, 5) Deep Dive into Solidity, 6) Getting started with smart contracts, 7) Game Development Stage: Planning, Blockchain, Backend and Frontend, and 8) Certification Exam. {Blockchain Council}

Certified Web3 Blockchain Developer (CW3BD)™: The CW3BD certification course offers you a lot more than a basic Blockchain development course with lessons on testing Web3 apps. You will gain the skills needed for creating unit test cases and evaluating web3 apps prior to deployment. Most importantly, the CW3BD certification course helps you become a certified blockchain developer with skills for DeFi and NFT development projects. In addition, the certification training course also offers access to hands-on exercises, interactive exercises, and demos that help you understand how web3 development works in real projects. Course 1: Solidity Fundamentals | 6 Modules | 70 Lessons | 6 Hands-on Exercises. Course 2: Smart Contracts Development | 7 Modules | 61 Lessons | 2 Hands-on Exercises. Course 3: Smart Contracts Security | 7 Modules | 58 Lessons | 5 Hands-on Exercises. Course 4: NFT Development | 9 Modules | 78 Lessons | 6 Hands-on Exercises. Course 5: DeFi Development | 7 Modules | 58 Lessons | 6 Hands-on Exercises. Course 6: Web3 Application Development | 7 Modules | 42 Lessons | 4 Hands-on Exercises, and Courser 7: Certification and Next Steps. {101 Blockchains}

Decentralized Applications (DApss): Prepares you to design and develop end-to-end decentralized applications (DApps) – which provide anyone with access to the blockchain's features and services. You will use Truffle IDE, smart contracts, a simple web client and a MetaMask client. You will learn about the architecture of a Dapp: the front-end client interface, backed by the blockchain and smart contracts. The course covers the basic design of a Dapp, Truffle development process and commands (init, develop, test and migrate), test-driven development of Dapp, Dapp application models and emerging standards that are essential for predictable Dapp behavior. Training modules include: 1) Decentralized Applications (Dapps) - the blockchain server as the foundation for a Decentralized Application and demonstrate how to install the blockchain server and establish a peer-to-peer network of nodes. It is a common practice to develop and test a Dapp on a local test network before deploying it on a public network, 2) Truffle Development - explore the user-friendly environment that Truffle provides for developing and testing a Dapp and the commands such as: develop, init, compile, migrate, test - all with truffle in front of them and with any parameters. This module will illustrate the steps needed in developing and testing a complete DApp, 3) Design Improvements - discuss a few of the many best practices exclusive to smart contracts and Dapps that will improve your basic Dapp design and discuss Ethereum Improvement Proposal and the ERC process that are essential for keeping Ethereum blockchain updated. We will also explore the standard ERC 20 for token Dapps and ERC 721 for non-fungible tokens. {State University of New York}

Decentralized Finance: The Decentralized Finance ideal for blockchain enthusiasts who understand the immense potential of the Blockchain-based financial supply chain but want to avoid the inherent threat presented by the high volatility and speculative nature of the cryptocurrencies traded on current exchange platforms. The DeFi construct is being developed to exactly remove this concern.101 Blockchains Research experts will share their latest findings on the DeFi foundational elements and display the current DeFi taxonomy that will help you identify the technical building blocks and stay ahead of the curve as a trusted enterprise blockchain professional. You will be able to develop solutions and applications after learning from the course the current DeFi use cases. Decentralized finance has tremendous potential for transforming the conventional elements in the financial supply chain, such as traditional currency and intermediaries. The Decentralized Finance training course in 101 Blockchains can help you learn about how crypto assets, new identity systems, smart contracts, and how financial

business models could help overcome the inefficiencies noted prominently in conventional financial systems. Skill-based training modules address: 1) What is DeFi?, 2) Why DeFi?, 3) DeFi Ecosystem, 4) DeFi Use Cases, and 5) DeFi Risks. {101 Blockchains}

Decentralized Finance (DeFi) Deep Dive: Credit and Lending (and feature MakerDAO, Compound and Aave), Decentralized Exchange with an analysis of how protocols like Uniswap and Balancer works, Derivatives (featuring Yield Protocol, dYdX and Synthetix) and Tokenization with an analysis of Set Protocol as well as wrapped bitcoin. For many of these leading protocols, we include detailed examples of how the mechanics work. For example, we show how to use a dYdX flash swap to execute an arbitrage transaction (take advantage of different prices on different exchanges for the same asset). Learn the mechanics of credit and lending protocols, decentralized exchange implementations, and derivatives and tokenization protocols. Training modules include: 1) Credit and Lending, 2) Decentralized Exchange, 3) Derivatives, and 4) Tokenization. {Duke University}

Introduction to DeFi - Decentralized Finance: DeFi enables parties to trade in a peer-to-peer (i.e., decentralized) fashion the traditional elements of the financial supply chain (e.g., deposits, loans, financial assets) by replacing traditional currency (e.g., dollars, euros) with stable-coins (i.e., cryptocurrency tokens pegged to that currency) and replacing the intermediary (i.e., the financial institution) with blockchain-based smart contracts that run autonomously on a permissionless blockchain protocol (Ethereum for the most part). {101 Blockchains}

Metaverse Fundamentals: Focuses on an emerging trend in the web3 space. This course offers a comprehensive overview of the crucial traits of the metaverse and the ecosystem associated with it. The program includes various use cases and applications of the metaverse. We have also included insights on topics such as the relationship between blockchain and web 3.0 technologies. Focus on leading metaverse projects and metaverse games that will help you understand how this technology works. You will also get all the details on the potential future for the metaverse so you know how to navigate your metaverse learning journey: Definition of the Metaverse & the interplay between Web 3.0 and Blockchain, Use of NFTs in Metaverse & Industries using the Metaverse technology, Applications of Metaverse & Leading Metaverse Projects & Metaverse Games, Metaverse Land Ownership- Property Investment, MetFi: The Intersection of Metaverse and DeFi, Metaverse and GameFi with Play-to-Earn

games and Future of the metaverse. Skill-based training modules include: 1 - Metaverse Fundamental - What is the Metaverse?, Timeline of the Metaverse, Companies in the Metaverse, Potential of the Metaverse, Whiteboard - Building Blocks, Use Cases/Applications, Challenges and Concerns, Demo – Metaverse Sites; 2 - Metaverse Technology - Technology Overview, Whiteboard - Tech Stack, Web3 and the Metaverse, VR/AR/AI, NFTs, Demos – Metaverse NFTS and Headset; 3) Metaverse Investing - How to invest in the Metaverse, Demo – Metaverse Index, Buy Land in the Metaverse, Demo - Buying Metaverse lands, Fundamentals of Metaverse Tokens, Demo – Decentralized Tokens, IDO, Gaming in the Metaverse and MetaFi; and 4) Course Wrap-up - Closeout, More Resources, Exam Details and Final Exam. {101 Blockchains}

Metaverse Technology - Intermediate Level: This course focuses on more than the basics of metaverse technology by including the technical aspect required to capitalize on the metaverse in practical applications. You can use the metaverse technology training course to expand your knowledge regarding the vision of the metaverse and crucial underlying features. This course will help you learn metaverse technology and the translation of desired metaverse features into technical specifications. The different modules of this course also give you an opportunity to familiarize yourself with the various tools required for defining the metaverse. Module 1: Metaverse - Intro, Module 2: Important Features Making the Metaverse, Module 3: From Features to Technical Requirements, Module 4: UI Hardware and Software, Module 5: Virtual Platforms, Module 6: Tools and Editors, Module 7: Payments, Module 8: Network, Module 9: Compute, Module 10: Interchange Tools, and Module 11: Robots and Agents. {101 Blockchains}

NFT Fundamentals (Non-Fungible Tokens): Concepts Behind NFTs, 2) Fundamentals of NFT, 3) History Behind NFTs, 4) NFT Projects Ecosystem, 5) NFT Use Cases, 6) NFT Marketplaces and Wallets, 7) Create, Buy and Sell NFTs, 8) Challenges to Mass Adoption and The Future of NFTs. Gain a detailed explanation and understanding of concepts underlying NFTs, understand the basics of NFT, its working, its impact and methods for creating, buying, and selling NFTs, learn the history associated with the evolution of NFTs and knowledge of challenges for mass adoption of NFTs and their future, explain the NFT projects ecosystem across different categories and reflection on use cases of NFT such as digital art, collectibles, and others, describe the various NFT marketplaces and wallets with examples,

grasp the methods for creating, buying, and selling NFTs, and gain knowledge of challenges for mass adoption of NFTs and their future. {101 Blockchains}

Web3 and Blockchain in Global Commerce: Global commerce has grown in complexity and magnitude over millennia, but its processes remain relatively unchanged. Enter blockchain—the Internet of Value. For the first time in human history, individuals and organizations can manage and trade their assets digitally, peer to peer. This four-course Specialization introduces you to the world of blockchain technology for global commerce—explaining what blockchain is, how it works, and why it is revolutionary. You will learn about various categories of digital assets and the ways they can be transacted on a blockchain. You will learn how blockchain is disrupting global supply chains, including how it will transform the practices of operations, logistics, procurement and purchasing, transportation, customs and border control, trade finance and insurance, manufacturing, and inventory management - making the whole network more adaptable and responsive to demand fluctuations and crises. You will also learn about industry consortia and the idea of coopetition—a strategy of cooperating with competitors for defined purposes to cultivate a new economic ecosystem that benefits all participants.\n\nDevelopment of this Specialization was made possible thanks to the generous support of FedEx. All content for this Specialization has been written and/or reviewed by the Blockchain Research Institute and approved by INSEAD to ensure it is pedagogically sound, unbiased, and academically rigorous. {Coursera}

IV - Publications & Portals

- Blockchain Advisory Council (CompTIA)
- Blockchain Council
- Blockchain Training Alliance (BTA)
- DappRadar
- Enterprise Ethereum Alliance
- Ethereum.org
- Ethereum on GitHub
- ETH Global
- Global Blockchain Council (DMCC)
- Meta - What is the Metaverse?
- Metaverse in 2040 (Pew Research Center)
- Stellar
- Web 3.0 (CoinMarketCap)

V - Professional Forums & Communities

- **Bitcoin | Ethereum | Kadena | CRO | Luna | Polkadot | Solana | Matic (Facebook/Meta - 327k members)**
- **Block Forums**
- **Crypto-FinTech-Blockchain-NFTs (Facebook/Meta - 17k members)**
- **Ethereum Development & DApps (Reddit - 107k members)**
- **IEE GET Blockchain Forum**
- **IT & Blockchain Developers (LinkedIn - Group 137k members)**
- **IT, FinTech, Blockchain & Bitcoin (Linked In - Group 470k members)**
- **Metaverse Standards Forum**
- **Moralis Web3 Forum**
- **Solidity Language (Twitter - 36k members)**

Career Transformation Guides (2022-2024)

- Artificial Intelligence-Machine Learning-Deep Learning
- Blockchain, Ethereum & Web 3
- Cloud Computing
- Cybersecurity & InfoSec
- Cryptocurrency & Digital Assets
- Data Science
- Finance, Accounting & Banking
- JavaScript Full Stack Development
- Linux & Open Source
- Python, R, TensorFlow & PyTorch
- Software Development
- Virtualization, Containerization & Networking

Genesys Ventures - Web Portals

- Artificial Intelligence Academy
- Blockchain VIPs
- Cryptocurrency, Blockchain & FinTech Academy
- Cybersecurity Certification Center
- Financial Certification Academy
- Online Learning Central