Harish Kumar Gunjalli

Blockchain/Solidity Developer

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Innovative software developer with more than 8+ years of IT experience, including 4+ years dedicated to blockchain engineering and 1+ year in AI Agents for Trading. Adept at designing secure smart contracts, building robust backend APIs, and implementing automation in decentralized systems. Extensive practice with international clients and cross-functional teams. Proven ability to lead, mentor, and deliver mission-critical software ranging from financial DApps and AI agent interfaces to large-scale data systems.

Achievements/Certifications:
* A certified Blockchain developer from Emurgo Academy, India.
* Winner at MAXathon(Maxonrow's online Hackathon)
* Best Paper Award at 2nd International Conference on Intelligent Computing and Applications (ICICA 2015)

In addition to the above skills, I have experience in Java, C++, SQL, ODBC, NodeJS, database design wrt REST API.

Professional Experience

Blockchain/Solidity Developer [Protokol BV] | October 2022 - Present

- Researched, architected, and built a self-repaying loan protocol with advanced on-chain automation features for client projects.
- Orchestrated all DevOps tasks for blockchain system deployments—set up auto triggers, price oracle simulations, and seamless data updates using OpenZeppelin Defender.
- Developed a Proof of Concept for upgradeable contracts, ensuring seamless future updates and security in decentralized systems.
- Crafted an application leveraging The Graph protocol to extract, transform, and present real-time blockchain analytics for DApp users, improving business insights dramatically.
- Engineered and deployed RESTful API endpoints for internal projects utilizing AWS Lambda, DynamoDB, and Opensearch, strengthening backend reliability and scalability.
- Designed and implemented interactive chat modules for AI agents using Bedrock and ExpressJS from scratch to support advanced, customizable strategy generation based on user feedback for Autonomous AI Trading.
- Led the prompt engineering process for AI agents, consistently delivering tailored solutions for complex workflows in financial DApps.

Software Developer - 2 [Oddz Finance] | June 2021 - September 2022

- Automated full deployment pipeline for Solidity contracts targeting multiple blockchains (Arbitrum, BSC, Polygon, AVAX), improving release agility and reliability.
- Reviewed and monitored trading contests, continuously optimizing smart contract workflows and event-driven triggers for the Oddz Options Trading platform.
- Authored workflow documentation and proof-of-concept for Perpetual Protocol integration, bridging new financial products with existing infrastructure.
- Developed comprehensive NPM modules and configurable contracts for third-party integrations, broadening platform connectivity.
- Built data ingestion architectures using SubGraph protocol, enabling real-time analytics and event tracking.
- Engineered smart contract wrappers for dynamic price and volatility feeds via ChainLink and GVol, enhancing platform transparency and price accuracy.
- Led development, testing, and workflow design for a suite of upcoming features, including multi-token support using QuickSwapRouter, UniSwapRouter, and automated reward distributions.
- Utilized OpenZeppelin Defender and Gelato for task automation, enabling cost-effective and resilient decentralized task scheduling.
- Consistently delivered and maintained high-quality smart contracts using industry standards (OpenZeppelin, UniSwap modules).

Software Developer [Magnitude Software] | July 2018 - June 2021

- Acted as product owner and technical lead for a team of 10+; managed direct customer engagement, feature enhancements, and full Scrum delivery for Simba Memphis Drivers.
- Spearheaded and delivered customer-critical features such as frozen types support in Simba Cassandra ODBC driver, achieving time-bound quality releases and high customer satisfaction.
- Integrated Veracode for proactive security scanning in Cassandra/DynamoDB connectors, upholding enterprise-grade compliance.
- Managed quarterly release cycles for Shopify, PayPal, Amazon MWS, Oracle Service Cloud integrations, consistently delivering business continuity and stability.
- Mentored and onboarded 20+ team members across QA, feature development, and release processes, fortified team output and internal expertise.
- Created a robust integration testing tool, reducing developer verification effort by 40% by automating ODBC/JDBC data validation.

Associate Software Developer [Magnitude Software] | July 2017 - June 2018

- Developed a performant ODBC connector for Oracle Service Cloud from scratch, supporting vital enterprise connection workflows.
- Led a team during the implementation of DML features for Memphis JDBC Core, contributing significantly to KT/onboarding for engineering hires.
- Authored test automation scripts for PowerBI and DrMemory, cutting developer testing cycle times by 30%.

[Full Stack Blockchain Developer Program [Emurgo Academy India]](#) | August 2019 - April 2020

- Worked on the development of DApps on the Ethereum blockchain using ReactJS, Truffle, Solidity, and Web3js.
- Developed smart contracts for various projects using Solidity.
- Experience using web3js to interact with front-end applications with smart contracts deployed in the blockchain.
- Knowledge of IPFS, ICO, Wallets, various consensus algorithms, and various tokens like ERC20, and ERC721 in Ethereum.
- Experience working with OpenZeppelin and SafeMath libraries.
- Knowledge of unit testing the smart contracts with mocha and chai.
- Experience working with Ethereum development tools like Truffle, Remix, Ganache, get, etc.
- Developed Decentralised applications on Hyperledger using Go Lang, Node.js, Express
- Expertise in setting up the Hyperledger Fabric network with multiple organizations and peers.
- Knowledge of Certificate Authorities and user enrolment to the network.
- Knowledge of Private Data collection to improve data confidentiality in the network.
- Developed fabric chaincode in GoLang and used Node SDK to interact with chain code from the client side.
- Knowledge of creating composite keys, and indexes, and executing rich queries in CouchDB from the chaincode.
- Knowledge of Go paradigms, constructs, and idioms.
- Knowledge of common Goroutine and channel patterns for concurrency.
- Developed RESTful and gRPC services in GoLang.
- Knowledge of Go modules for package management
- Knowledge of Rust and experience in Rust development.

Education

Bachelors in Information Science and Engineering at PES Institue Of Technology | August 2013 - May 2017

9.16 CGPA

Key Skills

Blockchain Development:
- Languages/Platforms: Solidity, Ethereum, Chainlink, SubGraph, OpenZeppelin, Gelato
- Smart Contract Design: ERC20, ERC721, upgradeable and wrapper contracts, multi-token workflows
- DevOps & Automation: Hardhat, Truffle, Foundry, CI/CD, OZ Defender, Gelato, Chainlink Keepers
- Operating with Multi-Sig wallets

Backend & Cloud:
- REST API development using Node.js, ExpressJS
- AWS Lambda, DynamoDB, Opensearch, PostgreSQL
- Integration with Graph protocol for decentralized data analytics
- Database design with SQL, NoSQL, ODBC, JDBC

AI & Prompt Engineering:
- Building prompt-driven AI agents (Bedrock platform)
- Customizing NLP workflows for strategic recommendations

Programming Languages:
- Solidity, JavaScript, Typescript, Python, Java

Other Skills:
- Unit and integration testing (mocha, chai)
- Scrum, QA and release management
- Mentoring and onboarding junior developers

Projects

Evidence Management | Feb 2020 - Apr 2020 |
https://github.com/iHarishKumar/evidence-management

A DLT-based evidence management system wherein the entire life-cycle of a specific crime/case file can be tracked with tamper-proof data. Here, any digital data that is specific to the case, will be hashed and pushed to the blockchain. Hence, reducing the risk of trust and mismanagement in the system. The parties involved are Police, Forensics, Court, and Lawyers.

Decentralised Identity Management | Oct 2019 - Nov 2019 |
https://github.com/iHarishKumar/id-management

Decentralized identity management using ERC721 token. Here, multiple Countries enroll with the Universal Organization (ex. UN) in getting universal and the local identity number for their people. Hence, this universal/local identity can be used for multiple purposes.