

# Qin Yang

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## Skills

**Programming Languages:** Javascript/Typescript, HTML, CSS, Golang, Java, Python, SQL

**Tools and frameworks:** React, Vue, Redux, Nodejs, Yarn, Nextjs, SASS/SCSS, GinGonic, Spring Boot, MySQL, PostgreSQL, Jest, AWS(Amplify, Cognito, Lambda, API gateway, DynamoDB, AWS ECR, AWS ECS, EC2, S3, CloudWatch), GCP(Firebase), Chrome Extension, Ethereum Smart Contract, Git/Github, Github Actions, Plasmio, Stripe, OpenAI API, Web3, Infura

**Relevant Knowledge:** Algorithm & Data structure, Computer Networks, Operating system, Distributed System, Responsive Web Design, Frontend Tooling & Testing, RESTful API Design & Development, Asynchronous Programming, Async I/O, Microservices Architecture, Data Model Design, System Design, Containerization & Orchestration, CI/CD Pipelines, Cloud Services & Infrastructure, Agile and Scrum Methodologies, Object-Oriented Programming (OOP), Test-Driven Development (TDD), Design Patterns & Software Architecture, Payment Gateway Integration, Blockchain Fundamentals & Smart Contract Development, Web3, Decentralized Applications(dApps)

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## Professional Experience

### Full stack developer lead, Sayanic Inc. 2023 Feb - Present

- Spearheaded a development team to build a B2C web platform and Chrome extension using OpenAI's GPT-3.5 API, leveraging **Next.js**, **React**, and **TypeScript** for front-end development and **Next.js serverless** with **Firebase** for backend services. Utilized **Plasmio** framework to develop Chrome browser extension.
- Successfully transitioned the project's backend to an **AWS stack (Cognito, DynamoDB, Lambda)**, reducing the development cycle from 3 to 2 months and increasing query performance by 15%. Orchestrated secure login mechanisms across both the web and Chrome extension platforms by using **JWT(JSON Web Token)**, **Amplify** and **Cognito** to authenticate users.
- Implemented CI/CD pipelines using **GitHub Actions** and **AWS Amplify** for automating unit tests on pull requests to the development branch and integration tests on merges to the production branch, ensuring robustness and high code quality.
- Directed the rebuild of a multifaceted B2B application for a construction company, enhancing data handling and security for Procore platform integration using **Java**, **SpringBoot**, **AWS RDS**, **MySQL**, and **Docker**.
- Transitioned the application hosting from Alibaba Cloud to **AWS ECS**, optimizing North America region access, and streamlined backend processes by implementing **JWT** for secure authentication and reengineering API interactions to bulk process timesheet records, achieving a 20% reduction in time and cost based on original estimate.
- Upgraded frontends from **JavaScript** to **TypeScript**, modularized components, and integrated new designs from Figma, improving maintainability and user interface consistency across admin, manager, and employee modules.

### Freelance full stack developer — 2022 March - 2023 Feb

- Created a Discord chatbot and management frontend with **ExpressJS** and **React**, serving a 2,000-user community, improving user engagement and streamlining server management.
- Developed a Lineltem Barcode Converter tool using **Next.js**, **TypeScript**, and **MUI**, enabling an e-shop vendor client to efficiently process hundreds of delivery cycle line items by converting barcode images from CSV/Excel files and vice versa.
- Enhanced an e-shop's payment infrastructure by implementing a stateless **React** frontend integrating **Stripe** and Alipay APIs, supporting diverse payment methods including cryptocurrency and Alipay, which facilitated hundreds of monthly transactions.

### Software Developer, Datomar Labs Inc — 2020 June - 2022 Jan

- developed a Shopify custom app to handle multi-tenant restaurant orders, using **React** and **JavaScript** for the frontend, and a **Golang**-based backend with **PostgreSQL** and Apache Kafka for message processing.
- Participated in transitioning the app to a standalone application with a **Vue.js** frontend and **Node.js/Strapi** backend after Shopify policy changes, reengineering the existing **React** code and designing new **UI/UX** with the product manager.
- Collaborated extensively with the development team to implement robust **CRUD APIs** and worked alongside QA to conduct comprehensive **JMeter** testing, identifying and resolving over 200 bugs and security issues, significantly enhancing system reliability and security. The restructured application successfully processes over 3,000 weekly online orders, supporting the operational needs of multi-tenant restaurants in the organization.

- Developed and implemented 3rd party app authentication and registration (including Slack, Facebook, Twillio) using **Golang** and **Gin Gonic** on an internal chatbot building app. Designed and built multiple commercial-grade chatbots for clients, leveraging the platform's capabilities to deliver tailored solutions.
  - Collaborated with the product manager to design and develop a crypto investment simulation game for a client using **React**, **ExpressJS**, and **JavaScript**. Utilized Coinbase and Binance APIs to fetch real-time and historical cryptocurrency prices, ensuring accuracy and realism in the simulation. Implemented user interaction features, enabling players to engage with the simulation, contributing to the promotion of the client's cryptocurrency product.
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## Education

University of Manitoba — Bachelor of Computer Science Honours, Oct 2019