





Tianhui Zhou

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Skills

- JavaScript | TypeScript | Python | Node | Express | Flask | Vue | Vuex | React | jQuery | Git | SSH | Jest | Unit Testing
- SQL | MySQL | PostgreSQL | SQLite | NoSQL | MongoDB | Firestore | Planetscale | Redis | ORM
- Firebase | GCP | Google Cloud Functions | AWS | AWS EC2 | Docker | Serverless | OOP | PWA | Web development
- UX Design | Frontend | Backend | Full-Stack | English, Chinese – All professional proficiency or above

Experience

Full-Stack Developer

[DocQ\(NDM Global\)](#)

Remote, HI, USA

03/2021 - 10/2022

- Led the design and development of multiple enterprise-level SaaS based Single Page Applications of Dev team, driving \$2 million of global revenue using the latest technologies of **Javascript, Vue, PWA, Python, Flask, PostgreSQL, Jest, Docker, DigitalOcean, Firebase, Redis, Auth0**.
- Designed and implemented Process Automation system with scalable APIs that integrate with ATS, CRM, and HRIS, completed ADP, Salesforce and SmartRecruiter API integrations based on business requirements.
- Designed and developed easy-to-use Form builder service that creates customizable, job-specific forms for unit needs, and provide data mapping functionality by an intuitive user interface to help businesses customize data migration from E2E.
- Refactored the flagship application DocQ with new UI/UX design to simplify User Interactions for complex workflows and bring up a modern User Interface style, successfully delivered the major version within 6 months, increasing 5+ enterprise customers/partners in the first quarter.
- Led the development of the company internal dashboard to support DocQ instance management, including notifications, monitors, health-check, configuration, and Identity & access management for over 15+ enterprises.
- Optimized several Backend APIs performance by using **Redis** as buffer cache layer to store hot data and RQ Workers to handle complex requests asynchronously in the background.
- Led the design and development of Learning Management system within 5 months, from identifying system requirements and partner dependencies to workload balancing, software implementation, testing, and MVP delivery.
- Implemented and designed Data analytics service to visualize the enterprise data of DocQ applications based on business requirements, and integrated Google analytics to provide professional services on demand.
- Designed and implemented PWA with **Service worker** and Vuex on enterprise-level applications to reduce several services loading time from 2.5 seconds to 1.5 seconds on average, leading to a 20% reduction in average page rendering time.

Projects

What-ToDo

09/2022 - Current

- Designed and developed a scalable Project Management system [What-ToDo](#) that support team to manage project, workflow, or task tracking with real time communication and content control using **Typescript, Vue, Node.js, Express, PlanetScale(MySQL), Firebase, Google Cloud Functions**.

UH-Shield

11/2020

- Designed and developed an award-winning building administration system [UH Shield](#), help UH staff to resolve the difficulty of event schedule management and visitor identity validation during Covid-19 by an easy-to-use mobile app using **Swift, SwiftUI, Firebase**.

Education

Bachelor of Science

[University of Hawaii at Manoa](#)

Honolulu, HI, USA

08/2017 - 05/2021

- Major in Computer Science with GPA 3.8

Others

- **Bronze Award:** Won 3th prize for the development of administration system [UH Shield](#) for UH Manoa at Hawaii Annual Coding Challenge that held by state government in Hawaii (**11/2020**)
- **ICS Peer Mentor:** Assist Professor to mentor Freshman/Sophomore students about OOP | Java | C | C++ | Discrete math at Kapiolani Community College in Hawaii. (**09/2019 ~ 04/2020**)