

Xiang Zhong

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Education Background

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| Georgia Institute of Technology | <i>MS in Computational Science and Engineering</i> | Aug 2019 – Dec 2021 |
| Main course work: Objects and Design, High Performance Computing, Intro Database System, Algorithms, Computational Data Analysis (Machine Learning), Data & Visual Analysis, Computer Networks | | |
| Zhejiang University | <i>B.Eng. in Materials Science and Engineering</i> | Sep 2015 – June 2019 |

Technical Skills

Programming Language: C, Java, Python, JavaScript, SQL

Back-End: Spring boot, Kubernetes, Docker, Maven, MySQL, GraphQL, JPA, JUnit

Front-End: React, Redux, Node.js

Dev-Ops: Jenkins Pipeline, Spring Cloud Config, Git, ArgoCD, Automation tests, Splunk, AWS, PagerDuty

Work Experience

Intuit – Software Engineer March 2022 – Feb 2024

- **Backend engineer** in Third Party Developer team with Agile environment
- **Developer Portal Development and Maintenance** Developed and maintained Java backend of the developer portal, a vital tool for third-party developers to leverage Intuit QuickBooks' API
- **Spring Boot Microservices Design and Management** Built and managed Java Spring Boot microservices to streamline processes for QuickBooks third-party developers. Deployed services using Kubernetes and AWS
- **Database Management** Managed AWS Aurora relational database for user data with MySQL
- **Identity-related APIs Implementation** Implemented identity-related GraphQL APIs with security principles like AuthZ and AuthN for third-party identity information, achieving lower budget costs than previous APIs
- **Authorization Workflow Integration** using Open Policy Agent, achieving seamless data-policy decoupling
- **Automated Testing Integration(CI)** Pioneered automation tests using the Karate framework, seamlessly integrated into the GitHub PR build pipeline through Jenkins
- **Automated Rollback Integration(CD)** Integrated automated rollback for a RESTful API service with Argo Rollout and Prometheus framework
- **Stakeholder Collaboration and On-call Resolution** Collaborated effectively with Project Managers and UI Designers for new initiative implementations. Actively assisted in troubleshooting on-call issues via PagerDuty, adhered to SDLC via Jira to ensure efficient project management and delivery

Intuit – Software Developer Intern May 2021 - Aug 2021

- **Backend engineer** in webhooks team for QuickBooks
- **Event Pipeline Optimization** Simplified the event pipeline within the Java webhooks consumer component by optimizing event types and code logic, leading to a notable increase in system traffic speed
- **Kubernetes Deployment** Acquired knowledge in Kubernetes and deployed the service using Argo CD
- **AWS Management** Learned and managed AWS resources including EC2, S3, SQS etc. for the webhooks consumer

Intuit – Software Developer Co-op May 2020 – Dec 2020

- **Frontend engineer** in the scrum team that manages the UI of QuickBooks Live
- **Test Automation Implementation** Implemented UI automation tests which will be ran in Github PR building pipeline using cypress.js, implemented unit test for React component using jest
- **UI Design Collaboration** Collaborated with the design team to implement multiple UI changes
- **React Widget Integration for Enhanced User Experience** Integrated new React widgets to manage client requests and document exchange between small business owners and bookkeepers, largely improved user experience

Project Experience

YelpCamp – Web Application Mar 2020 – May 2020

- **Web Application Development** Developed the web application for users to upload photos and comments
- **Backend Implementation** Implemented the backend using Node.js, Express and MongoDB to store user data
- **User Authentication** Implemented user authentication by Passport.js to ensure secure access

Database – Desktop Application Nov 2019 – Jan 2020

- **Desktop Application Development** for movies data to ensure seamless interaction and data management
- **Database Design, Interaction and Management** Built Enhanced Entity Relation Diagram and Information Flow Diagram to optimize data organization and retrieval, used JDBC to connect with MySQL, developed SQL queries to handle complex data management tasks, ensuring the application's smooth operation