Qi Zhang

Summary

Software Engineer with experience building scalable, high-performance full-stack web applications Seeking a full-time full-stack role (H1B transfer available) to architect impactful solutions and drive business value.

Professional Experience

Sofrware Engineer | Tour Guide App | Bellevue, WA| 02/2024 - present

- Designed and built a full-stack tour guide platform using Next.js, Python FastAPI, and PostgreSQL, providing travelers with personalized route recommendations and itinerary planning tools
- Implemented authentication and IAM control using JWT and role-based access, ensuring secure user and admin management
- Developed a receipt redemption system with FastAPI endpoints and transaction validation, enabling users to redeem tour credits with ~ 5% increased accuracy
- Built pickup/drop-off location and route suggestion engine integrating GeoPy and Google Maps API, dynamically optimizing travel paths based on user profiles.
- Integrated AI-powered tourist destination introduction and QA section using OpenAI API, allowing users to ask travel-related questions and receive intelligent, context-aware recommendations.
- Designed a modular frontend architecture and RESTful backend services, enabling scalable feature development and smooth data flow communication

Software Engineer | Flexport | Bellevue, WA | 11/2022 - 11/2023

- Built work management platform with Scala and Java on backend and React on frontend
- Architected a shipment process template for the forwarding application, establishing best practices that improved development speed for new shipment workflows by ~ 30%.
- Designed and implemented an Amazon Simple Queue Service for shipment processors, improving throughput and reducing processing latency by ~ 20%.
- Developed gRPC APIs for inter-service communication, enabling reliable and low-latency message exchange across distributed systems.
- Collaborated with operations teams to deliver critical features, improving workflow efficiency and reducing manual processing time by ~ 25%.
- Integrated Atlassian Jira API into the Forwarding App, enabling in-app ticket creation and reducing average ticket creation time from 15 minutes to under 10 minute.
- Automated extraction of custom documentation from prior work items, standardizing automation workflows and introducing error handling with proactive alerts, reducing failure rates by ~ 15%.

Software Engineer | Flexport | Shanghai, China | 10/2021 - 11/2022

- Built the shipment communication platform using Ruby on Rails and React to streamline internal and external messaging.
- Led the frontend implementation of a notification settings module for both individual and company accounts using React and GraphQL
- Mentored new engineers and established onboarding logic to onboard engineers
- Presented technical knowledge sessions ("brown bag") to share best practices across the engineering team.
- Shipped multiple UX enhancements, simplifying user interactions and improving satisfaction scores in user surveys by ~ 5%..

Contacts

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Education

Northeastern University

- 01/2019 - 12/2020
- MS in Computer Science
- San Jose, CA

Skills & Abilities

Programming Languages

- C/C++
- Python
- Java
- Scala
- Ruby
- Go
- Kotlin
- HTML
- React

Frameworks & Tools

- Spring Boot
- Ruby on Rails
- React
- Node.js
- ZIO
- gRPC
- GraphQL
- Atlassian Jira API
- FastAPI

Databases & Cloud

- MySQL
- PostgreSQL
- MongoDB
- AWS (S3, Lambda, SQS)
- Redis

Practices

- System design
- distributed systems
- API development
- automation
- agile development
- mentorship