Rui Zhu

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SKILLS

Languages	Typescript/Javascript, Java, Python, Bash, Golang, SQL
Frameworks	Serverless, Svelte, Spring Boot, Micronaut, React/Redux, VueJS/Vuex
Tools	aws, git, docker, maven, nix, redis

WORK EXPERIENCE

Deliverr (Acquired by Flexport) — Remote

Software Engineer II — June 2023 – Present
- Designed and shipped new user-facing product providing auto billing for 50K+ items that were manually billed
- Built new invoicing flow via AWS Lambda for billable interactions with Chargebee as part of integration work
- Fixed issues in pricing overview and billing sections of client-facing React frontend
- Designed launch readiness dashboard using Datadog to monitor traffic to new features
- Designed scalable models for MySQL database using knex for data populating 15M+ rows
- Diagnosed performance issues with SQL queries, such as race conditions, timeouts, connection pools
- Wrote documentation outlining critical flows to business logic and debugging common FAQ's

Jr. Backend Developer — May 2022 – June 2023
- Managed invoicing with Chargebee, billing 100K events per week from custom billing logic
- Integrated payment gateways like Stripe, Plaid, Braintree servicing 10K+ customers, collecting 100M+ in revenue
- Created datadog dashboards/alerts to monitor systems, lowering FRT from 1+ days to minutes
- Designed lambdas providing new business features handling over 2M events per week
- Shipped code independantly to a serverless ecosystem of typescript lambdas interacting with S3/SQS/Redis/SSM
- Debugged critical systems using different logging tools such as datadog, cloudwatch
- Integrated IaC tools like Terraform and serverless with CI/CD, achieving easier deployments with better safeguards
- Participated in code reviews, standups, agile meetings, and other team rituals
- Helped onboard new team members onto codebase

Capital One — Toronto, ON

Associate Software Engineer — Jan 2021 – April 2022
- Implemented new content/components for Gatsby React site servicing 75K+ unique visitors/week
- Ran A/B tests and tracked data from 5000+ experiment interactions per day.
- Wrote cypress, rtl, and enzyme tests while maintaining 100% code coverage
- Used terraform to manage security groups and IAM roles
- Integrated live API data into site, improving response time of product changes by 30 minutes
- Participated in agile development practices to effectively manage tasks
- Optimized AWS cloudfront infrastructure to increase resiliency through cloudfront origin failover

Software Engineer Intern — May 2020 – Aug 2020
- Implemented new user workflows in VueJS/Vuex SPA used by customer agents
- Created new endpoints and business logic in RESTful NodeJS APIs that were consumed by 10K+ users per day
- Performed Accessibility testing on web application, and documented/fixed issues

Software Engineer Intern — May 2019 – Aug 2019
- Upgraded Java REST API from Spring 4 to Spring Boot 2, reducing vulnerabilities by 50%
- Added performance tweaks to object pooling for encryption/decryption, decreasing response time by 20%
- Created unit and integration tests using Wiremock, H2 DB, and Mockito, getting 100% code coverage

PROJECTS

kimosabe — Spring Boot, React, Postgres, Redis
Social application for finding buddies to play games with
- Used IGDB API cached in Redis and RediSearch for searching of games
- Implemented features in Spring Boot API and React Front end
- Orchestrated pipeline using drone CI/CD + docker to include deployment + testing
- DB Migrations through flyway

fserv — Golang, Postgres
File server w/ imgur style file name shortening used for self hosting images/files
- Wrote web server that served simple, light HTML website with JWT auth
- Added features for account management and private files

EDUCATION

Carleton University — Ottawa, ON
Bachelors Computer Science, 10.7/12 CGPA (3.8/4.0) — Sept 2016 – Dec 2020
- TA for data structures & algorithms class, mentoring 100+ students.