Rui Zhu

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SKILLS

Languages	Typescript/Javascript, Java, Kotlin, Python, SQL, Bash, Golang
Frameworks	Spring Boot, React/Redux, Serverless, Svelte, Dropwizard, VueJS/Vuex, JQuery
Tools	aws, git, docker, Spinnaker, Terraform, maven, kubernetes, prometheus, Datadog, nix, redis

WORK EXPERIENCE

Pinterest — Remote
Software Engineer II — Feb 2024 – Present
- Implemented Multi-account support for 3+ new accounts on internal service used to deploy code to AWS EC2
- Built dedicated developer build workflow, which sped up development speed by 300%
- Designed and built features in Spinnaker CD (Kubernetes deploys, Buildkite CI, and timed rollbacks), increasing adoption by 15+%
- Reduced cpu/memory resource usage by 30% by optimizing internal logic for Spinnaker constraint evaluations
- Improved MySQL performance by up to 20% through query analysis and optimization
- Enhanced developer and user experience of GraphQL backend and React UI
- Architected a Kubernetes migration deployment flow, enabling the successful migration of 50+ services from EC2 to Kubernetes
- Formally mentored new teammates by onboarding them onto kotlin/java/python codebase
- Led improvements of internal tooling by adding live reloading for PF4J plugins

Deliverr (Acquired by Flexport) — Remote
Software Engineer II — June 2023 – Nov 2023
- Developed a launch readiness dashboard using Datadog metrics to monitor traffic to new features
- Optimized database performance by designing efficient queries and fixing deadlocks on MySQL tables with 15 million+ rows
- Created SQL reports using Metabase and Snowflake to monitor critical business metrics

Jr. Backend Developer — May 2022 – June 2023
- Managed invoicing with event driven system around Chargebee, billing 100K events per week from custom billing logic
- Participated in implementation of new pricing system with rates assignment for 10k+ merchants
- Created Datadog dashboards/alerts to monitor systems, lowering FRT from 1+ days to minutes
- Built REST API to generate/retrieve csv reports and excel sheets for customer's pricing data using lambdas and presigned urls from S3
- Integrated IaC tools like Terraform and Serverless with CircleCI, achieving easier deployments with better safeguards

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 using Optimizely
- Wrote cypress, rtl, and enzyme tests while maintaining 90% code coverage
- Integrated live API data into site, improving response time of product changes by 30 minutes
- 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

cyoa — Fastify, Svelte, Cloudflare, SQLite, k8s
Choose your own Adventure player + creation
- Built UI using sveltkit + pixi.js to render decision graph
- Social auth login (Google Auth) with stateless sessions
- Deployed to Cloudflare R2 + Pages + and kubernetes, using full CI/CD stack using fluxCD/github actions

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.