

Rui Zhu

github.com/zrui98 | zrui.dev | ciguatera.z.rui@gmail.com

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, maven, kubernetes, prometheus, Datadog, nix, redis

WORK EXPERIENCE

Pinterest

Software Engineer II

Remote
Feb 2024 – Present

- Implemented Multi-account support for 5+ new accounts on internal tool used to deploy code to AWS EC2 instances
- Designed and built features in Spinnaker CD like Kubernetes deploys, Buildkite CI, and timed rollbacks, increasing adoption by 10%
- Decreased cpu/memory resource usage by 30% by optimizing how internal deployment logic works for Spinnaker pipelines
- Improved performance of some MySQL queries by up to 20% by removing nested joins and adding indices on commonly used query fields
- Updated GraphQL endpoints and React UI to introduce new types to Spinnaker enums
- Designed shadow deployment flow for kubernetes migrations, which was critical to migrating 50+ services to onboard onto kubernetes
- Mentored new teammates by onboarding them onto codebase, and improved internal tooling by adding hot reloading for PF4J plugins

Deliverr (Acquired by Flexport)

Software Engineer II

Remote
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
- Wrote documentation outlining critical flows to business logic and debugging common FAQ's

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

Associate Software Engineer

Toronto, ON
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 sveltekit + 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

Bachelors Computer Science, 10.7/12 CGPA (3.8/4.0)

- TA for data structures & algorithms class, mentoring 100+ students.

Ottawa, ON
Sept 2016 – Dec 2020