Rui Zhu

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SKILLS

Languages	Java, JavaScript, Kotlin, Typescript, Python, Bash, SQL, Golang, Redis
Frameworks	Spring Boot, Micronaut, React/Redux, Svelte, VueJS/Vuex, NodeJS, Spring, JUnit, Jest, JQuery
Tools	git, docker, maven, nix, aws

WORK EXPERIENCE

Associate Software Engineer
Capital One

Jan 2021 – Present
Toronto, ON

- Implemented new features/content in Gatsby React site servicing 15000+ unique visitors/week
- Used aws IaC with terraform to manage security groups and IAM roles and deploy infra changes
- Wrote cypress, rtl, and enzyme tests, while maintaining 100% code coverage
- Implemented new internal dev environment using golang lambda and s3
- Worked in scrum team utilizing mob/pair programming to effectively complete large tasks
- Integrated live API data into website, removing dependency on hardcoded data

Software Engineer Intern
Capital One

May 2020 – Aug 2020
Toronto, ON

- 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 front end
- Performed Accessibility testing on web application, and documented/fixed issues

Software Engineer Intern
Capital One

May 2019 – Aug 2019
Toronto, ON

- Upgraded RESTful API from Spring 4 to Spring Boot 2, improving code maintainablility and security
- Added performance increasing modifications to object pooling for encryption/decryption classes
- Created unit and integration tests using Wiremock, H2 DB, and Mockito, getting 100% code coverage

Front End Developer Intern
Ross Video

Sept 2018 – Dec 2018
Ottawa, ON

- Worked on SaaS webapp servicing major news stations/stadiums in North America
- Implemented new features in Javascript/Jquery application such as video players and login groups
- Added UX improvements for touchpad devices

Software Test Engineer Intern
Gemalto

May 2018 – Aug 2018
Ottawa, ON

- Wrote performance testing scripts using python and java to automate retrieval of data (xml, csv)
- Used SQLAlchemy ORM to efficiently query and filter from data set with 20,000+ rows
- Created a web app using JQuery to run and display comparisons between data sets, improving usability

PROJECTS

Valhalla Rising
Micronaut+Kotlin, Svelte+Typescript, PostgreSQL

turn based websocket game (2-4 players) with matchmaking.
- Has JWT authenticated RESTful API for account/game management.
- Designed with async and parallel requests in mind

kimosabe
Spring Boot, React, PostgreSQL, 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 test pipeline using drone CI/CD

fserv
Golang, PostgreSQL

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 Authentication
- Added features for account management and private files

EDUCATION

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

Sept 2016 – Dec 2020
Ottawa, ON

- TA for Data structures class, mentoring 100+ students.