Rui Zhu

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SKILLS

Languages	Java, Python, JavaScript, Kotlin, TypeScript, Bash, SQL, Golang
Frameworks	Spring Boot, React, Vue JS, NodeJS, Spring, JUnit, Jest, Wiremock, JQuery
Tools	git, docker, SVN, nix

WORK EXPERIENCE

Software Engineer Intern   May 2020 – Aug 2020
Capital One   *Toronto, ON*
- Created new endpoints in RESTful API to expose data for front end
- Deployed customer info editing feature in application used by telephone agents in Vue JS front end
- Wrote Unit Tests and Integration Tests with Jest

Software Engineer Intern   May 2019 – Aug 2019
Capital One   *Toronto, ON*
- Upgraded RESTful API from Spring 4 to Spring Boot 2, improving code maintainablility and currency
- Added performance increasing modifications such to object pooling for encryption/decryption classes
- Implemented new endpoints in API backend to improve usability
- Created unit tests and integration tests using Wiremock, embedded H2 DB, and Mockito, getting 100% code coverage
- Maintained existing tools like ATDD environment with Cucumber

Front End Developer Intern   Sept 2018 – Dec 2018
Ross Video   *Ottawa, ON*
- Implement new features for customers such as a video player
- Wrote Java upgrade scripts for version changes within the product that would update the database
- Improved UX on touchscreen devices by fixing library compatabilities with touch.js

Software Test Engineer Intern   May 2018 – Aug 2018
Gemalto   *Ottawa, ON*
- Wrote performance testing scripts using python and java to automate retrieval of data into various formats (xml, csv)
- Wrote queries using SQLAlchemy to communicate with PostgreSQL database
- Created a web app using JQuery to run and display comparisons between data sets, improving website usability
- Computed statistics from data sets, which were then sent to the front end through a Flask route

Teaching Assistant   Sept 2017 – Dec 2019
Carleton University   *Ottawa, ON*
- Helped students understand bugs with their code by running through their code with them
- Explained to students various design patterns and data structures/algorithms in Java/Python

PROJECTS

fserv
Golang, PostgreSQL
- Go app w/ imgur style file name shortening used for self hosting images.
- Implements JWT authorization
- Serves simple, light HTML website

Matrix Calculator
React, Redux, TypeScript
- React SPA that performs matrix operations such as RREF, Transpose, Multiply
- Uses math.js for experimental symbolic algebra support

EDUCATION

Carleton University   Sept 2016 – Dec 2020
B. Computer Science, 10.65/12 CGPA   *Ottawa, ON*