Rui Zhu

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3205 Uplands Drive Unit # 9 | K1V 9T3

EDUCATION

B.CS Honours   Sept 2016 – Apr 2021
Carleton University, Ottawa, ON
- 10.9/12.0 CGPA
- Deans List 2016 – 2018

WORK EXPERIENCE

Front End Developer   Sept 2018 – Dec 2018
Ross Video, Ottawa, ON
- Wrote Apache Struts backend to send database entries to JSPs as JSON object, which was generated from Hibernate ORM and DAO Java classes.
- Used JS, JQuery, and many third party libraries to build new features such as HTML5 video player, responsive forms that auto-populated with data, dynamic toolbars, and other UI elements while keeping in mind customer requirements
- Wrote Java upgrade scripts for version changes within the product that would update the database.
- Improved UX on touchscreen devices

Software Test Engineer   May 2018 – Aug 2018
Gemalto, Ottawa, ON
- Wrote performance testing scripts using python and java to automate retrieval of data into various formats such as txt files and xml spreadsheets
- Wrote queries using SQLAlchemy to communicate with PostgreSQL database
- Created a Front End using JQuery and various libraries to provide an organized method of displaying comparisons between data sets, improving website usability for customers
- Computed statistics from data sets, which were then sent to the front end through a Flask route

Teaching Assistant   Sept 2017 – Apr 2018
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

Matrix Calculator
React, Javascript
- React SPA that performs matrix operations on user input
- Fraction support, and input validation of correct format

T3D
Java
- Pesudo-3D tower defence game using raycasting to render walls and entities
- Used A* to implement simple path finding of enemies

SKILLS

Programming Languages	Javascript, Python, Java, C, C++, Bash
Technologies & Frameworks	JQuery, Node.js, ReactJS, VueJS, PostgreSQL, MySQL, SQLite, MongoDB, Flask, Hibernate
Tools	Git, SVN, GCC, GDB, Valgrind, nix