Justin Hua

COMPUTER ENGINEERING STUDENT

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Education

University of British Columbia   *Expected May, 2023*

BACHELOR OF APPLIED SCIENCE - COMPUTER ENGINEERING (GPA: 84.2%)   *Vancouver, BC*

- **Relevant Coursework:** Computation in Engineering Design, Principles of Software Construction, Introduction to Microcomputers, Basics of Computer Systems, Basic Algorithms and Data Structures

Experience

Fatigue Science   *May, 2020 - Present*

QA ENGINEER CO-OP   *Vancouver, BC*

- Developing an automated test suite from the ground up in **TypeScript** using the **Protractor** framework to transition from manual testing for a mobile sleep analytics application
- Streamlining manual QA processes through improving usability and functionality of **Python** scripts used for mass sleep data manipulation
- Creating and executing manual and automated test cases to verify functionality of product features and REST APIs
- Collaborating with developers and product managers in an agile environment to ensure features are timely released according to product roadmaps

Projects

Leaguer Discord Bot   *May, 2020 - Present*

- Developing a **Node.js** application to create a Discord chat bot periodically providing player information from the game League of Legends
- Designing a back-end system interacting with external REST APIs to gather player information, storing it into a **MongoDB** database using **Mongoose**
- Implementing a modular event handler to trigger on user message events, filtering for bot commands and executing respective command scripts

ext2 File System   *March, 2020*

- Designed an ext2 file system in **C** using FUSE to be mounted in Linux and perform read operations on files and directories as an exercise to learn more about file systems
- Implemented a handler to read ext2 data from given volume files and creating necessary data structures for file system mounting

Wikipedia Mediator Service   *November, 2019 - December, 2019*

- Built a server application and handler in **Java** able to log requests and concurrently process multiple clients through JSON-formatted strings over a network socket
- Interfaced with public libraries to perform page queries on Wikipedia and return results based on the type of user request
- Created a dedicated cache accessed by the server to store page objects while automatically discarding stale items, reducing excessive network requests and increasing lookup speed

Skills

Languages   JavaScript, TypeScript, Java, C/C++, HTML, CSS, Python
Software   IntelliJ, Microsoft Visual Studio, Visual Studio Code, Postman, Jira
Technologies Node.js, Protractor, JUnit, Git

Awards

Dean's List, UBC   *June, 2019 - June, 2020*
Governor General's Academic Medal, Bronze   *June, 2018*

Interests & Activities

Piano, Guitar, Digital Photography, Video Games, Weightlifting, Ultimate Frisbee