Matthew Chow

Computer Engineering Co-op Student

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Languages Java JavaScript(Current) React(Current) Express(Current) HTML/CSS C/C++

Tools Git Github JUnit IntelliJ VSCode

Projects

FOEX | nwHacks2020 (Wolfram Award Top 35/145) January 2020
- Engineered an Android application that reduces food waste by capturing an image of produce and logging an estimated expiry date
- Composed with the Azure Computer Vision API to analyze an image's colour information
- Java, Microsoft Azure Computer Vision API, Android Studio

WikiMediator Server | CPEN 221 December 2019
- Constructed a server application that utilizes the jwiki API to handle Wikipedia requests
- Integrated multithreading to handle multiple clients and verified correctness with unit, and regression testing
- Java, jwiki API, JUnit

Personal Website | Self Directed December 2019
- Built a portfolio website that dynamically reorganizes content for optimal user experience
- Integrated JavaScript to add animated styling effects
- JavaScript, HTML, CSS, Bootstrap

UBCNav | UBC Local Hack Day November 2019
- Developed an Android application to create a central hub for UBC students to locate places to eat, study, and other various services
- Integrated the Google Maps API to adapt routes for people with physical impairment
- Java, Google Maps API, Google Maps Android SDK, Android Studio

Experience

Software Developer September 2019 - Present
UBC Solar | Vancouver, BC
- Designed and deployed a web app to display the telemetry data of a solar-powered car
- Utilized HTML and CSS to create a frontend that prioritizes the delivery of data to the user and is scalable for all screen sizes

Electronics Mechanical Cable Assembler June 2019 - August 2019
IMS | Calgary, AB
- Assembled electronic components such as PCBs and an air purification device in accordance to detailed manufacturing instructions
- Directed assembly of 10 train control modules within a two week time constraint

Education

University of British Columbia | Bachelor of Applied Science, Computer Engineering
Expected May 2023
- GPA: A-
- Relevant Courses: Introduction to Computation in Engineering Design, Principles of Software Construction, Mathematical Proof, Data Structures and Algorithms (Current)