Matthew Chow

Computer Engineering Co-op Student

5960 Student Union Blvd. Vancouver, BC | 403.630.5811 | mattchow918@gmail.com
linkedin.com/in/matthewpchow | github.com/mpchow | matthewchow.me

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Languages Java C/C++(Current) JavaScript(Current) Python(Current) HTML/CSS

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
• 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, CSS, and JavaScript 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)