Matthew Chow

Computer Engineering Co-op Student

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Experience

Incoming Software Developer Intern @ SAP

September 2020 – April 2021 ∴ Vancouver, BC

» Will be developing infrastructure for SAP HANA with Python and Golang

QA Engineer Intern @ Perk Labs

July 2020 – Present ∴ Vancouver, BC

» Reducing the development team's workload by utilizing **React Native** to deploy UX features

» Strengthening UI/UX design by identifying pain points in transaction flows and suggesting readability improvements based on user centered design

» Delivering an optimal experience for **3000+ users** through regression, integration, and unit tests

Software Developer @ UBC Solar

September 2019 – April 2020 ∴ Vancouver, BC

» Designed a web app with **HTML**, **CSS**, and **JavaScript** to deliver telemetry data from a solar car for strategical analysis during competition

» Expanded the user base by creating a scalable frontend design

Projects

CurrenSee

July 2020

» Visualized past currency data to predict future trends by dynamically updating trend lines against a user inputted base currency with **React** and **Chart.js**

» Computed conversion rates with **Exchange rates API**; hosted on **Netlify**

FOEX ∴ nwHacks2020 (Wolfram Award Top 35/145)

January 2020

» Mitigated food waste through an Android app with **Java** that captures an image of produce and logs an estimated expiry date

» Extracted colour and object information from images to classify and determine an expiry date with the **Microsoft Azure Computer Vision API**

WikiMediator Server

November 2019 – December 2019

» Engineered a **Java** server application with the **jwiki API** to deliver Wikipedia results; verified correctness with **JUnit** to perform unit, and regression testing

» Optimized performance for multiple clients by creating a cache with multithreading

UBCNav ∴ UBC Local Hack Day

November 2019

» Developed a **Java** Android app to create a central hub for UBC students to locate areas to eat, study, and access other campus services

» Integrated directions between buildings with the **Google Maps API and SDK**; enabled accommodative routing for people with impaired movement

Skills

Languages

» JavaScript » Java
» Golang » HTML
» CSS » C
» C++

Tools

» React » Git
» React Native » Jira
» JUnit

Education

University of British Columbia

BASc Computer Engineering
3rd Year Standing
Expected May 2023

» GPA: A-, Deans List

» Inter-varsity Christian Fellowship (Service Team Lead)

Courses

» Data Structures and Algorithms
» Principles of Software Construction
» Basics of Computer Systems
» Mathematical Proof

Awards

» Alexander Rutherford Scholarship
» Suncor Scholarship

Interests

» Wushu (Chinese Martial Art - Nationals in 2015)
» Soccer
» Traveling