Matthew Chow
Software Engineer

(403) 630-5811
mattchow918@gmail.com
matthewchow.dev
github.com/mpchow
linkedin.com/in/matthewpchow

Experience

Software Developer Intern @ SAP   September 2020 – April 2021
- Architecting an automated **Python** artifact pipeline to migrate artifacts to **AWS** and **Alicloud** to enable developer workflows for a multimillion dollar project
- Producing extensive documentation for design, testing, and integration into production environments; justifying benefits of design with respect to various user and time requirements
- Maintaining a **Java microservice** by resolving production bugs; migrating functionality from deprecated dependencies
- Validating system deployments by developing basic acceptance tests and load tests with **Python** and **Locust**

QA Engineer Intern @ Perk Labs   July 2020 – August 2020
- Boosted development output by developing UX features in **React Native**
- Strengthened UI/UX design by identifying pain points in transaction flows and suggesting readability improvements based on user centered design
- Delivered an optimal experience for **5000+ users** through regression, integration, and unit tests

Projects

ImageStash
- Developed a full stack image repository application with **React** and **Express** to handle storage of user images; operated on an **EC2** instance
- Managed user authentication with **Google OAuth 2.0**; stored user information and images in **S3** and a **MongoDB Atlas** cluster

pilldex ∴ CPEN 321 (4th Place)
- Constructed the backend for a pill tracking app that helps users keep track of pills by dynamically scheduling reminders based on user behaviour
- Established a **RESTful API** with **Express** on an **EC2** instance; verified correctness by creating an extensive suite of unit tests with **Jest**

FOEX ∴ nwHacks2020 (Wolfram Award Top 35/145)
- Mitigated food waste by calculating and logging expiry dates for users from images with a **Java Android app**
- Extracted colour and object information from images to classify and determine an expiry date with the **Microsoft Azure Computer Vision API**

CurrenSee
- 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**

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)

Skills

Languages

JavaScript	Python
Java	HTML
CSS	C
C++	

Tools

AWS	React
Express	React Native
Git	Jira
JUnit	

Courses

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

Interests

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