Mitchell **Ma**

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EDUCATION

UNIVERSITY OF BRITISH COLUMBIA | BSc in Mathematics and Computer Science
September 2014 - May 2019 | Vancouver, BC

VOLUNTEER & WORK

KILLARNEY COMMUNITY CENTER | Activities and Events Assistant
December 2010 – June 2014 | Vancouver, BC

- Volunteered in helping the center run various programs ranging from soccer to computer labs targeted at youth

TUTOR
September 2013 – Present

- Specialize in teaching mathematics and computer science (up to third year university level)

TEACHING ASSISTANT | Math TA at UBC
September 2016 – May 2017

- Responsible for assignment, midterm, and exam grading and office hours for first and second year courses

PROJECTS

MIND THE GAP | Android application for London's transit system
July 2016 – August 2016 | Solo | Java

- Implemented parser for London's transit API that transforms JSON and XML into displayable data for the UI
- Partially coded up UI that marks out transit lines and station locations while providing information such as train schedules

INSIGHTUBC | Course and building explorer for UBC
January 2017 – April 2017 | 2 members | HTML · SCSS · Typescript

- Implemented RESTful API that transforms UBC Pair zip data and extensively tested code base with Mocha
- Coded server that acts as a rudimentary database for manipulating zip data using user provided queries

GSMS | Grocery store management system
September 2017 – December 2017 | 4 members | HTML · SCSS · Typescript · (PL/)SQL

- Using ERDs, designed BCNF database suitable for grocery-related queries and operations
- Wrote front end webpage and RESTful server that parse and manipulate information stored in Oracle database

POST ME | Mobile app to post anything locally
December 2017 – Present | 2 members | React Native · Java · Swift · SQL

- Responsible for Android-side testing and verification
- Implemented user authentication with Google and Facebook integration using Firebase
- Wrote RESTful server that stores and retrieves user data, posts, and messages using PostgreSQL

SCRAPEYARD | Crawler and scraper for The New York Times
January 2018 - January 2018 | Solo | Python 3 · NoSQL

- Coded a single-threaded web crawler that runs asynchronously to maximize URL requests
- Multi-process scraper for reading, transforming, and storing articles in large scale

TECHNICAL SKILLS

Comfortable with:
Java • Typescript (Javascript) • Python 3 • HTML & SCSS (CSS) • LaTeX
Familiar with:
C • C++ • Rust • MATLAB • (PL/)SQL • NoSQL • PHP • Assembly • Visual Basic
I've used these before:
JUnit • Mocha • Jest • Node.js • React Native • Adobe Illustrator • Adobe Photoshop • JetBrains IDE • WordPad