

Mitchell Ma

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EDUCATION

UNIVERSITY OF BRITISH COLUMBIA | BSC IN MATHEMATICS AND COMPUTER SCIENCE

September 2014 - May 2019 | Vancouver, BC

- Dean's Honour List with Distinction
- Trek Excellence Scholarship

VOLUNTEER & WORK

KILLARNEY COMMUNITY CENTER | ACTIVITIES AND EVENTS ASSISTANT

December 2010 - June 2014 | Vancouver, BC

- Volunteered in helping the center run various sports programs and other activities primarily targeted toward youth
- Occasionally responsible for instructing small-sized group of teenagers in a sports program

TUTOR

September 2013 - present

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

TEACHING ASSISTANT | MATH TA AT UBC

2016 - 2017

- Responsible for assignment, midterm, and exam grading for a few first and second year courses
- Held office hours to assist students in understanding course concepts and clarify assignment problems

PROJECTS

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
- Wrote RESTful server that stores and retrieves user data, messages, and posts using PostgreSQL

SCRAPEYARD | CRAWLER AND SCRAPER FOR THE NEW YORK TIMES

January 2018 - Present | 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) • \LaTeX

Familiar with:

C • C++ • Python 3 • MATLAB • (PL/SQL) • NoSQL • PHP • Assembly • Visual Basic • HTML & SCSS (CSS)

I've used these before:

JUnit • Mocha • Jest • Node.js • React Native • Adobe Illustrator • Adobe Photoshop • JetBrains IDE • WordPad