

Michael Tuntang

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EDUCATION

The University of British Columbia

Vancouver, BC

BSc Major in Computer Science, Minor in Commerce

Aug. 2018 – Expected May 2023

Relevant Coursework

Software Engineering, Machine Learning, Machine Architecture, Data Structures & Algorithms, Relational Databases

PROJECTS

Scribe (Ongoing Project) | JavaScript(JSX), HTML/CSS, React

- Built a Google Keep clone web application using JavaScript(JSX), HTML/CSS and React.
- Designed a user friendly interface with React and CSS.
- To be implemented: online storage with Firebase and styling improvements.

Insight UBC | TypeScript, JavaScript (Node.js), HTML/CSS, Mocha/Chai

- Built a web application using Node.js and HTML/CSS that parses datasets about course information in UBC, and returns a set of courses that meet the user's criteria (i.e average > 80%)
- Built a web API that can parse a query from the web application that can add and remove a dataset.
- Developed an automated test suite for the front-end and back-end using Mocha/Chai.

U.S. Presidential (Trump-vs-Biden) Tweet Classifier | Python, NumPy, Scikit-learn, Pandas

- Developed a machine learning model (binary classifier) to classify tweets from Donald J. Trump and Joe Biden.
- Built a stacking ensemble that consists of a random forest classifier, naïve bayes, K nearest neighbours with cosine similarity achieving 0.226 testing error.

Auto DB | HTML/CSS, JavaScript, SQL

- Built a private auto insurance database tool built with users such as employees or client that allow users to add, edit, or delete fields each with respective account restrictions.
- Designed a relational database with multiple entity relationships and constraints using MySQL.
- Wrote queries in SQL for various functionalities.

Dice Roller | HTML/CSS, JavaScript

- Developed a dice game that has two "players" roll two dices on random where the higher score wins.
- Example usage: users can input the name of restaurants if they are unable to decide where to eat.

Expense Tracker | Java, JUnit, Swing

- Designed and implemented a Java app that tracks the user's spending.
- Allowed users to insert, save, and update total money spent on several categories based on user input and gives out a summary.
- Developed an automated test suite using JUnit and a GUI with Swing.

Web Navigator | UBC Okanagan Summer Volunteer | HTML/CSS, SQL

- Built a web application to explore UBC Okanagan's course unions, contacts, etc.
- Developed a navigation bar using HTML/CSS and designed a relational database using MySQL.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, JavaScript, TypeScript, HTML/CSS

Frameworks: React, Node.js, Mocha.js, Chai.js, npm, JUnit, Bootstrap

Developer Tools: Git, VS Code, Visual Studio, MySQL, Jupyter Notebook, IntelliJ, Eclipse, Figma

Libraries: pandas, NumPy, scikit-learn, Matplotlib