Michael Tuntang

mtuntang@student.ubc.ca | linkedin.com/in/mtuntang | github.com/mtuntang | mtuntang.github.io/Portfolio

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, Algorithms & Data Structures, Relational Databases

PROJECTS

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 with 0.226 testing error.
- Built a stacking ensemble that consists of a random forest classifier, naïve bayes, K nearest neighbours with cosine similarity.

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: 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