



Michael Tuntang

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EDUCATION

The University of British Columbia

BSc Major in Computer Science, Minor in Commerce

Vancouver, BC

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 REST API web application that returns a set of courses based on user's criteria.
- Allowed users to request a complex criterion of courses by building a query engine and HTML/JSON parser.
- 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.
- Allowed users to add, edit, or delete fields each with respective account restrictions.
- Designed and implemented a relational database with multiple entity relationships and constraints.

Dice Roller | HTML/CSS, JavaScript

- Developed dice game that has two "players" roll two dices on random where the higher score wins.
- Example usage: Facilitate a random environment for hungry users who are unable to decide where to eat.

Expense Tracker | Java, JUnit, Swing

- Designed and implemented an 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

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

Libraries: pandas, NumPy, scikit-learn, Matplotlib