

# Denton Sun

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## Education

*B.Sc Computer Science* | **University of British Columbia** [May 2024]

Relevant Coursework: Algorithm Design and Analysis, Artificial Intelligence, Machine Learning, Relational Databases.

## Professional Experience

**Undergraduate Teaching Assistant** | *UBC Science* [Sept 2022- Dec 2022]

- **One of six** Teaching Assistants for the new UBC Science 100 program with focus in computation
- Lead **independent tutorials** with 15 students and **teach educational and technical skills** to help students excel in computer science.

**Software Developer** | *Whatifi.io* [Jan 2022- Sept 2022]

- **Refactored 200+** files of the **SaaS web app** codebase to better support better abstraction and coding practices in **Go** and **Typescript**
- **Optimized calculations** to handle larger scales by switching to parallel calls to proprietary back-end decision engines.
- Managed and maintained company **databases** with **PostgreSQL queries**
- **Designed and implemented** new features that enhanced the app's capabilities and **simplified complex calculations**.

## Personal Projects

**Valorant Performance Analyzer** | *Riot Games API + Python + Flask*

- Retrieved and parsed competitive match data using the **Riot Games Valorant API**
- Implemented a **Flask web application** front-end to take in user inputted in-game names to search for specific in game data on the player
- **Analyzed** match data to **compare player performance** against other players in the match using several game and round-specific metrics like damage, headshot percentage, and utility usage
- **Plot and displayed results** on the web app, giving users a **personalized insight** on their playstyle and how they compare to players in their games

**Kaggle Machine Learning Competitions**

- ICR - Identifying Age-Related Conditions | Top 25%
- Store Item Demand Forecasting Challenge | Top 25%

**Thought Sloth - Hack the North** | *Java + Tensorflow* | [devpost.com/software/thoughtsloth](https://devpost.com/software/thoughtsloth)

- Created a **NLP text classifier** and trained the model using **Tensorflow** and open source datasets

**Find Me Food - Android Application** | *Kotlin + YelpFusion API + Android Studio*

- Used the **Yelp Fusion API** for restaurant data and parsed it based on users' settings and location to provide simple location-based restaurant suggestions

## Technical Skills

**Languages:** Python, JavaScript, Typescript, Go, Java, C++, HTML/CSS

**Technologies:** Git, React, Tensorflow, PostgreSQL, Flask, VS Code