

Hao Ran Wei

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EDUCATION

Simon Fraser University

Bachelor of Science in Computer Science

Burnaby, BC

Sept 2018 – Apr 2023

EXPERIENCE

Tutor

World Vision Academy

Surrey, BC

Sept 2023 – Present

- Mentored a high school student to create a website from scratch with **Flask, SQL, HTML/CSS**.
- Pioneered an innovative project-based lesson plan, leveraging advanced Git tools to meticulously track and optimize student progress.
- Revolutionized the tutoring approach by seamlessly integrating agile methodologies into the lesson plan, significantly enhancing project management and student engagement.

Head Instructor

Code Ninjas

Burnaby, BC

Aug 2023 – Present

- Leading a team of Tech Educators to plan course material and explain complicated algorithms to individuals of different backgrounds.
- Oversaw a team of 8 employees to communicate effectively to set priorities and expectations for each shift.
- Demonstrated high flexibility by swiftly adapting to diverse situations, leading to a promotion within a mere two months of employment.
- Increased staff productivity by **50%** by training new staff on day-to-day activities.

Software Developer Intern

Webb Electronics

Burnaby, BC

Jan 2022 – Aug 2022

- Increased user satisfaction ratings and decrease minimal down-time by **20%** each by creating an auto-updating system using **Bash** for verifying and validating update scripts, alongside utilizing **Systemctl** for application restarts.
- Developed a database version control system using **Flask Migrate**, integrating it with an existing **SQLite** database. Implemented real-time debugging capabilities through **Socket** integration, ensuring seamless rollback of undesired database features.
- Spearheaded the design of a GUI with **TkInter** for the front-end use of system features to improve technician usability and streamline developer tools for technicians.
- Collaborated with the Hardware department to create a modularized hardware component to increase call components by **100%**.

PROJECTS

Deep Learning by PyTorch | Google Colab, PyTorch, Python

- Gained hands-on experience designing and training deep convolutional neural networks using **PyTorch**.
- Employed an iterative approach and research to elevate the professor's baseline architecture for precise image classification across 100 categories.
- Achieved exceptional results, securing a top **10%** class ranking for accuracy and proving expertise in **PyTorch**-based deep neural network design and training.

Ninja-Dash Project | Node.js, Socket, HTML/CSS, PostgreSQL

- Used agile paradigms to lead a group of 5 peers to complete the project in time, resulting in a final grade of **95%**.
- Designed a login and signing in node.js that is easy to-use **UI** and prevents **SQL** injections.
- Organized and developed a full 2D multiplayer fighting game that includes a real-time chat box.

TECHNICAL SKILLS

Languages: Python, C/C++, SQL (Postgres, SQLite), JavaScript, HTML/CSS, Bash

Frameworks: Flask, Node.js, Nginx, Jira

Developer Tools: Git, Google Colab, VS Code, Visual Studio

Libraries: PyTorch, NumPy, Matplotlib