Simon Huang

778-877-5629 | simon.huang2@uwaterloo.ca | LinkedIn | GitHub

SKILLS

Languages: C#, C/C++, Python, Java, Javascript, SQL, HTML/CSS
Technologies: Git, Jira, MS SQL Server, ASP.NET Core, Blazor, Razor, Unix, Node.js, VS Code

EXPERIENCE

Provincial Health Services Authority – Vancouver, British Columbia
Full Stack Developer *May 2021 – Aug 2021*

- Developed a **.NET Core web application** that supports over **500 capital projects and applications**, **3000 servers** and other vital systems that are used to operate the healthcare system for the province of BC
- Led design and development of **front-end** and **back-end** portions of a wiki page using **C#**, **Javascript**, **Blazor**, and **MS SQL Server**
- Architected and implemented a **role-based access security layer** to prevent users with insufficient **permissions** from editing and/or viewing sensitive health care information
- Conducted **C#**, **SQL**, and **Javascript software debugging** across **large codebase** while piloting **agile** implementation

Brainchild Education Center – Burnaby, British Columbia
Academic Tutor *Jul 2017 – Jan 2020*

- Mentored children and teenagers for over **250 hours** towards teaching **Advanced Placement courses** and **math competition** questions
- Taught high-school and university students **problem-solving strategies** as well as **fundamentals of programming**, which improved academic grades and competition scores by over **30%**

PROJECTS

Impossible Invaders - *Python, Pygame, HTML, CSS*

- Used **object-oriented programming** in **Python** to create a game inspired by Space Invaders
- Implemented **collision detection** and increasing game difficulty with **Pygame**

MONK-E Assistant - *Python, gTTS, Speech Recognition*

- Integrated **PyPI libraries** in **Python** to program a bot that assists with simple tasks, such as **capturing images**, applying a filter to the images, then posting them onto Discord or Twitter via a **bot** using their **APIs**.
- Implemented unique voice commands with a **Speech Recognition API** that trigger various bot functions
- Established randomized dialogue with **gTTS's API** to converse with the user

EDUCATION

University of Waterloo – Bachelor of Software Engineering *Sep 2020 - Present*
Cumulative GPA: **91.9%**
Related Courses: Data Abstraction and Implementation, Methods of Software Engineering, Digital Circuits and Systems

ACHIEVEMENTS

President's Scholarship of Distinction *2020*
University of Waterloo Scholarship

COMC Provincial Honour Roll *2018*
Canadian Open Mathematics Challenge Provincial Award

Fryer Math Contest 1st in Canada *2017*
CEMC Fryer Mathematics Contest 1st Place Nationally