

SIMON HUANG

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Skills

Languages: C#, C++, Python, JavaScript, TypeScript, SQL, HTML/CSS

Technologies: Git, Angular, React.js, ASP.NET, Node.js, Microsoft SQL Server, AWS, Azure DevOps

Experience

AuraData

Ajax, ON

Software Engineering Intern - Full Stack Engineer

Jan 2022 - Apr 2022

- Refactored and redesigned a web application used for education verification services utilizing **Angular (TypeScript)**, **Bootstrap**, **HTML/CSS** for the front-end and **.NET Core** for the backend
- Built **RESTful APIs** using **Entity Framework (C#)**, **Microsoft SQL Server**, and **Azure** to process subject verifications, generating **\$1.3 million** in annual revenue
- Integrated Bambora's **Payment SDK** to allow clients to store card profiles and make requests to the payment gateway via **third-party API**
- Designed and implemented **data models** with **relational databases**, to store company's accounting information such as tax reporting and user balance information

Provincial Health Services Authority

Vancouver, BC

Software Engineering Intern - Full Stack Developer

May 2021 - Aug 2021

- Developed a **.NET Core** web application that supports over **500** capital projects & applications, **3000** servers and other vital systems, used to operate the BC healthcare system
- Led design and development of **front-end** and **back-end** portions of a wiki page using **C#**, **jQuery**, **JavaScript**, **Blazor**, and **Microsoft SQL Server**
- Architected a **role-based access security layer** to allow users with sufficient permissions to edit sensitive health care information
- Conducted **C#**, **SQL**, and **JavaScript** software debugging and testing across large codebase while piloting **agile** implementation using **JIRA**

Projects

SimonSWE

[GitHub](#)

React.js, JavaScript, Python, Django, Webpack, AWS, HTML/CSS

2022

- Built visually pleasing **UI components** in **React.js** with the help of **Material UI** to create a **portfolio website** to display personal accomplishments and experiences
- Hosted **Django web application** on an **Ubuntu AWS** LightSail Server with a **custom domain**

Impossible Invaders

[GitHub](#)

Python, PyGame, Object-Oriented Programming

2021

- Used **OOP** in **Python** to create a **game** inspired by Space Invaders along with creating encapsulated entity classes and objects using PyGame
- Implemented **collision detection** and **randomized spawn patterns** to elevate game difficulty

MONKE Assistant

[GitHub](#)

Python, APIs, gTTS, Speech Recognition

2021

- Integrated **PyPI libraries** in **Python** to program a **bot** that assists with capturing images, applying a filter, then posting them onto Discord and Twitter via their **APIs**
- Implemented unique voice commands with a **Speech Recognition API** that trigger various bot functions such as performing a coinflip, rolling a dice and replying to the user with **gTTS's API**

Education

University of Waterloo

2020 - 2025

Bachelor of Software Engineering

87% CGPA