

Sanghoon Choi

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TECHNICAL SKILLS

Languages: C, JavaScript, Java, Python, Swift, HTML/CSS

Tools: Linux Shell, AWS, Git, Jira, XCode, Visual Studio, AutoCAD

EXPERIENCE

Lead Software Developer - **Haneco Canada** 📅 May - Aug. 2021

- Developed an iOS app using **Swift** in the **XCode** environment to streamline the field engineers' work
- Implemented a backend structure for communication with **AWS**
- Introduced a Kanban agile environment using **Jira**, reducing inefficiencies in the QA process

IT Infrastructure Support - **University of Waterloo** 📅 Jun. 2019 - Jul. 2019

- Developed code in Python to allow more efficient access to the University of Waterloo's database servers
- Refactored code allows up to 1.2x faster query speeds
- Working with **Python**, **MySQL**, **JavaScript** and **HTML**, queried data is accessed quickly while minimizing unnecessary information transfer

PROJECTS

Aiso - **Hack the North 2020++** 📅 Jan. 2021

- Developed a web-app which reads 2D orthographic sketches and creates a 3D object using a client-hosted SolidWorks program
- Interface created in **p5.js** and **HTML/CSS**, allowing users to draw 2D sketches
- **Python/Flask** retrieves JSON data from sketch coordinates to control Solidworks

EasyLang - **Hack the North 2019** 📅 Sep. 2019

- Created an augmented reality Android app to facilitate immigrants learning English
- Leveraged machine learning to detect an object, and **Google Translate API** to translate the object into the user's preferred language, as well as in English.

Restaurant 📅 May. - Jul. 2021

- Using **JavaScript** and **HTML/CSS**, Restaurant, a web-app, randomly selects a restaurant in a 10km radius from the user, or from any given coordinates
- Backend retrieves JSON data from **Google Maps API** to display information including an interactive map, restaurant name and address, ratings, and other optionals

EDUCATION

BSc in Computational Mathematics (Co-op) - University of Waterloo 📅 2020 - 2025

INTERESTS

- Formula One, Simulated Racing, Hardware engineering, Cycling