Sanghoon Choi

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TECHNICAL SKILLS

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

Frameworks/Tech: Linux Shell, Git, BootStrap, Jira, XCode, Visual Studio, AWS, AutoCAD

EXPERIENCE

Software Developer Intern - Haneco Canada   📅 May - Aug. 2021
- Optimized internal processes for field engineers by **65%** by developing a technical solution using Swift and migrating to an iOS app to replace manual paperwork
- Automated the data processing, saving **2 hours per day**
- **Improved turnover time** in the QA process **3x** by introducing a **Kanban agile environment** using **Jira**

IT Infrastructure Support - University of Waterloo   📅 Jun. - Jul. 2019
- Developed code in Python to allow **1.2x faster** access speeds to the university's database servers
- Removing inefficiencies in the information transfer process using **Python**, **MySQL**, and **JavaScript**

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**
- UI created in **p5.js**, allowing users to draw 2D sketches
- **Python**/**Flask** retrieves JSON data from sketch coordinates to control Solidworks

EasyLang - Hack the North 2019   📅 Sept. 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

Restaurand   📅 May. - Jul. 2021
- Using JavaScript and HTML/CSS, Restaurand, 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 options

EDUCATION

BMath in Computational Mathematics (Co-op) - University of Waterloo   📅 Sept. 2020 - May. 2025

INTERESTS

- Formula One, Simulated Racing, Hardware engineering, Cycling