Sean Lee

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Education

University of Waterloo

Graduating May 2020

Honours Computer Engineering

Coursework

Programming Fundamentals

Algorithms & Data Structures

Electronic Circuits

Embedded Systems and Design

Digital Computers

Skills

Programming

Java

C++

Javascript

PHP

Frameworks

Bootstrap 3

Laravel 5

Experienced with

Android Development

Web Development

Professional Experience

IT User Support Assistant **TMS School**

- Provided 1st level technical support to end users using TMS hardware and software, including break-fix, troubleshooting, diagnosis, repair, and training
- Utilized Local Group Policy Editor (MMC) to accommodate classroom and examination needs
- Monitored network infrastructure and firewall to maintain bandwidth and wireless access to end users

Computing Assistant **University of Waterloo**

- Provided students, faculty, and staff within the Faculty of Arts with computing accounts, computer lab and printing access, and technical support
- Utilized HTML/CSS and PHP to develop CALMS; a new platform that will migrate local data files (hardware assets) into the cloud for efficient storage and application.
- Reformatted Windows/OSX firmware with updated software, scheduled appointments with Faculty and Staff, and deployed new machines for Staff Rollover and lab upgrades

Projects

Personal Website **HTML/CSS/Bootstrap**

- Developed live website from scratch to showcase personal profile and contact information
- Created using Bootstrap 3 framework
- Hosted using Github Pages with a custom domain name (seanlee.me)

PathFinder **Java/Android SDK**

- Android application that displays user movement and navigational directions on an SVG diagram
- Utilized Android Sensors API to generate a step/direction detection algorithm
- Used A* search algorithm to find shortest path between origin and destination

Green Tips **Javascript/Amazon Echo ASK**

- Developed custom Alexa skill that is triggered by user invocation to deliver randomized voice prompts pulled from custom MySQL database
- Worked on back-end developement to create JSON Intent schema and Lambda function logic