

Sean Lee

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Education

University of Waterloo

Honours Computer Engineering

Graduating May 2020

Coursework

Programming Fundamentals

Algorithms & Data Structures

Embedded Systems and Design

Digital Computers

Skills

Languages

Java

C++

Javascript

PHP

Web Development

HTML5

CSS3

Laravel5

Tools

Git

Subversion

Google APIs

Android SDK

Alexa Skill Kit

Professional Experience

IT User Support Assistant TMS School (Sept 2016 - Dec 2016)

- Provided 1st level technical support to end users using TMS hardware and software, including break-fix, troubleshooting, diagnosis, repair, and training
- Modified **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 (Jan 2016 - Apr 2016)

- Administered 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** with **Laravel 5** framework 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

PathFinder Java/Android SDK

- Android application that displays user movement and navigational directions on an SVG diagram
- Utilized **Android Sensors API** and finite state machines to generate a step/direction detection algorithm
- Implemented high pass and low pass filters to attenuate frequency signals, resulting in < 5% error in output data
- Used A* search algorithm to find path between origin and destination

Green Tips Javascript/Amazon Echo ASK

- Developed custom Alexa skill that is triggered by user invocation to deliver sustainable environmental solutions, all pulled from a randomized series in custom **MySQL** database
- Worked on back-end development to create **JSON** Intent schema and AWS Lambda function logic
- Created in less than 12 hours at Electric City Hacks 2016

Personal Website HTML/CSS/Bootstrap

- Developed live website from scratch to showcase personal profile and contact information
- Implemented various features like navigation bar, dynamic information cards, and carousel slides
- Hosted using Github Pages with custom domain name

Visit my website to learn more!

seanlee.me

Interests & Activities

Consumer Smartphones, Hackathons, Virtual Reality, Artificial Intelligence, University of Waterloo Orchestra (Trumpet), Powerlifting, E-Sports