

Sean Lee

778-822-9447

sean.lee.1@uwaterloo.ca

seanlee98

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Education

University of Waterloo

Graduating May 2020

Honours Computer Engineering

Achievements

University of Waterloo Engineering Entrance Scholarship

University of Waterloo President's Scholarship

Coursework

Programming Fundamentals

Linear Circuits

Digital Circuits and Systems

Embedded Systems and Design

Discrete Math

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 development to create JSON Intent schema and Lambda function logic

Skills

Programming

- Java/C++/Python/PHP/Javascript

Frameworks

- Bootstrap/Laravel

Experienced With

- Android & Web Development