

# Sean Lee

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🌐 seanlee98

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## Skills

### Languages

Swift  
C/C++  
Java  
Javascript  
HTML5/CSS3

### Tools & Frameworks

XCode/XCTest  
Android Studio/SDK  
Alexa Skill Kit  
Swagger  
Postman

## Education

### University of Waterloo

Honours Computer Engineering  
Graduating May 2020

## Coursework

Algorithms & Data Structures  
Embedded Systems and Design  
Digital Computers  
Operating Systems & Systems Programming  
Embedded Microprocessor Systems

## Interests & Activities

Mobile Development  
Powerlifting  
E-Sports  
University of Waterloo Orchestra (Trumpet)

## Professional Experience

### Software Engineering Consultant Capco (May 2017 - Aug 2017)

- Developed iOS application for President's Choice Financial Digital Platform, impacting millions of consumers around the world
- Coordinated with Channel Services (Back-end), UX, and business analysts (client-side) to implement user features that are aligned with business requirements
- Worked extensively with **UIKit** to implement custom UI prescribed by **Zeplin** designs
- Built custom logging framework and unit test cases (**XCTest**) to optimize debugging and increase robustness of code base
- Exposed to **JIRA** and **Agile** methodologies for software development, while following **UIApplication** programming paradigms (**MVC**)

### 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 (**TCP/IP**) 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
- 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 shortest 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, queried from 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