Sean Lee

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Skills

Languages

Swift

C#

C/C++

Java

HTML5/CSS3

Javascript

Tools & Frameworks

Azure Service Bus & Service Fabric

Xamarin.Forms

Angular

Alexa Skill Kit

Education

University of Waterloo

Honours Computer Engineering

Graduating May 2020

Interests & Activities

Competitive Powerlifting (OPA/CPU)

University of Waterloo Orchestra (Trumpet)

Professional Experience

Software Development Intern   Bentley Systems (Jan 2018 - Apr 2018)

- Developed and maintained cross-platform features utilizing **Xamarin.Forms** and 3rd-party frameworks for enterprise mobile applications
- Migrated UI testing coverage to **Visual Studio App Center** to automate tests across hundreds of **Android** and **iOS** devices
- Built responsive form controls for an **Angular** web project, designed to deliver superior user-experience for existing clientele
- Wrote enhancements to an Interoperability project that enables persistent connection details across node failovers on engine services (running on Angular web page integrated with **Azure Service Fabric**)
- Created a producer function to generate random asset data that is published to service bus subscribers, enabling load testing on engine nodes
- Integrated **NUnit** testing framework and **SEQ** logging to ensure a robust, debuggable codebase

Software Engineering Consultant   Capco (May 2017 - Aug 2017)

- Developed iOS application for a Top Canadian Bank, providing personal financial services to millions of consumers around the world
- Coordinated with back-end team to implement **REST API** calls and custom **JSON** parser with **Swift**
- Worked extensively with **UIKit** to implement custom UI prescribed by external UX team through **Zeplin** designs
- Built custom logging framework and unit test cases (**XCTest**) to optimize debugging and increase robustness of code base
- Experienced **JIRA** and **Agile** methodologies for software development, while following **UIApplication** programming paradigms (**MVC**)

Projects

UnbiasifyPlus   Javascript/JQuery

- Winner of Coinsquare's Best Contribution to Open-Source Project (unbiasify.com) at Hack the Valley 2018
- Implemented visual filters across popular social media platforms to eliminate bias within the user experience

PathFinder   Java/Android SDK

- Used **A*** search algorithm to direct user movement from origin to destination 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