

Sean Lee

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Skills

Mobile Development

Swift

Objective-C

Java

Xamarin

Web Development

HTML5/CSS3

Javascript

React

Angular

SASS

NodeJS

Other Languages & Frameworks

C#

C/C++

Azure Service Bus

Azure Service Fabric

ASP.NET Core MVC

Alexa Skill Kit

Education

University of Waterloo

B.Sc., Honours
Computer Engineering

Graduating May 2020

Interests & Activities

Competitive
Powerlifting (OPA/CPU)

University of Waterloo
Orchestra (Trumpet)

Personal Website

seanlee98.github.io

Professional Experience

Agile Software Engineer TribalScale (Sept 2018 - Present)

- Developed and deployed product website for national pharmaceutical company, with responsive front-end components built on **React** with **SASS** styling and subscription/contact services through **NodeJS**

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 dynamic **AJAX** calls to an Interoperability project, enabling persistent connection details across engine nodes (running on **Angular** web page integrated with **Azure Service Fabric & Service Bus**)
- Created a producer function to generate random asset data that is published to service bus subscribers, enabling load testing on engine nodes with compiled running times
- 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 over two million 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 codebase
- 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](#)) at Hack the Valley 2018
- Implemented visual filters across popular social media platforms to eliminate bias within the user experience

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 less than **5%** error in output data
- Used **A*** search algorithm to find shortest path between origin and destination