

# Sean Lee

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## Skills

### Languages

Swift  
Objective-C  
Javascript  
Java  
HTML5/CSS3  
C#  
C/C++

### Technologies

iOS  
React  
Angular  
Node.js  
Xamarin  
Azure  
Concourse  
Charles  
ASP.NET  
Alexa

## 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](https://seanlee98.github.io)

## Professional Experience

### Agile Software Engineer TribalScale (Sept 2018 - Dec 2018)

- Created an internal **React** application that utilizes Github data on employees to enhance allocations for future projects. Leveraged **Redux Saga** for state management and **Jest** with **Enzyme** for test-driven development
- Enhanced the ABC News **iOS** application to improve user experience and add new features for the 2018 US Midterm Elections
- Refactored legacy code (written in **Objective-C**) to Swift components that follow **MVVM** architecture and wrote additional unit tests to increase code coverage by **17%**
- Developed and deployed product website for national pharmaceutical company on **React** with **SASS** styling and subscription/contact services through **NodeJS** back-end
- Earned 1st Place in Venture Studio's Ideathon with a business proposal in the Transportation vertical

### Full-Stack Developer Bentley Systems (Jan 2018 - Apr 2018)

- Developed and maintained cross-platform features utilizing **Xamarin.Forms** and **JUnit** testing framework 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

### iOS Developer 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 **Agile** methodologies for software development, while following **UIApplication** programming paradigms (**MVC**)

## Projects

### Twitalytics ReactJS/Flask/Twitter API/NLTK

- Created a **React** application that extracts tweets from **Twitter Search API**, performs sentiment analysis, and visualizes the public opinion of a topic
- Developed an NLP algorithm using **NLTK** that clusters and prioritizes popular tweets
- Implemented front-end architecture and integrated **React-Vis** for data visualizations
- Winner of Best Use of Entity Extraction at Hack Western 2018 ([Devpost](#))