

# Sepehr Aflatounian

Software Engineer (iOS) · Computer Engineering Graduate · University of Waterloo

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## About Me

**Programming:** Expert: Swift · Python **Proficient:** Typescript · Javascript · C++ · C# **Experienced:** Java · Objective-C

**Technologies:** iOS · React · Node/Express · Azure · Git · Linux · Docker · Angular · MySQL · Scikit-learn · PyTorch · Django

## Work Experience

### Avanade

(Remote) Toronto, ON

iOS Developer (Client: Ford, Worked on intelligent and manual charging feature for electric vehicles on FordPass iOS app) (Swift)

Oct. 2021 - Present

- Used reactive programming concept in swift using RxSwift to implement data bindings in MVVM architecture
- Developed interactive pages using Snapkit and SwiftUI and wrote unit tests with coverage of 90% of the UI code
- Implemented remote control features using composable architecture design pattern that resulted in making the telemetry data accessible across the code reduced the lines wrnitten by 20%
- Followed Agile methodology to efficiently develop and work in a team that lead to outstanding achievement from the client

## Co-ops and Projects

### SeedCI

Kitchener, ON

Founding Machine Learning Engineer - Entrepreneurial Co-op (Python, JavaScript)

Feb. 2021 - Sep. 2021

- Designed scalable software architecture to automate machine learning (ML) pipeline
- Went through YC Startup school and built demo MVP, presentation , customer feedback loop and business plan for potential investors

### EzSec

Remote

Machine Learning Engineer (Python, Scikit-learn, Linux)

Sep. 2020 - Dec. 2020

- Designed infrastructure to run multiple simulated cyberattacks using attackrange and detectionlab
- Optimized the simulation run time by factor of 10 by asynchronously running parallel attack simulations, and collected network logs using Splunk
- Researched and developed the prototype and proof-of-concept of unsupervised models to capture malicious activity from snort logs

### Fleet Complete

Toronto, ON

Mobile Full Stack Developer (Java, Objective C, Swift)

Jan. 2020 - Apr. 2020

- Designed an architecture migration to MVVM, featuring a new type-safe API and accessible testing which improved end to end testability
- Reduced lines written for core application flows by 95% through the creation of generic components to encourage code reuse.
- Performed CI/CD with Jenkins for deployment and wrote unit tests covering 90% of the functionalities of the server including notifications

### Crelhub (Real Estate Listing HUB)

Toronto, ON

Software Developer (JavaScript, Python, Pytorch)

May. 2020 - Oct. 2020

- Implemented web application and realtor dashboard using React, Express, Node featuring <50ms latency WebRTC live open house feature
- Built multi-tag image classifier using transfer learning on ResNet and enhanced accuracy to 96% with augmentation techniques
- Developed a machine learning pipeline for model deployment using Flask

### Stars Technologies

Toronto, ON

Mobile Developer (Java, Swift)

Sep. 2019 - Aug. 2020

- Wrote unit tests to achieve 93% coverage of the code for both Android and iOS
- Introduced new debugging tools for the mobile development team which enhanced the debugging of memory corruption bugs resulted in 10% faster development

## Education

### University of Waterloo

Waterloo, ON

B.S. in Computer Engineering

**Watonomous Design team (SAE Autonomous Vehicle competition):** Led the software development team to architect a software pipeline which controls the vehicle, from sensor data consumption to controls actuation in ROS and C++ and achieved the 3rd place in SAE competitions

Sep. 2016 - Aug. 2021