

Sepehr Aflatounian

Software Engineer (iOS) · Computer Engineering Graduate (2021) · 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

Smile Link

Texas

Fouding Engineer (Swift, Azure)

March, 2022 - Present

System Architect and iOS developer for the first patient mobile application

- Responsible for developing a patient-centric iOS application from scratch, enabling seamless registration with dentists, appointment management, and end-to-end encrypted doctor-patient chat functionality.
- Implemented appointment booking feature within the app, enhancing convenience for patients.
- Proficient in iOS development technologies, frameworks, and languages, including Swift and Xcode.
- Demonstrated expertise in integrating with backend APIs and ensuring secure data transmission.
- Contributed to open source SwiftUI libraries for calendar and chat interface
- Utilized the Clean Architecture, Factory Method and composable Architecture to further enhance readability and cleanness of the codebase

Avanade

Toronto, ON

Sotware Engineer (Swift, Azure, Powerapps)

Oct. 2021 - Feb. 2023

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

- 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
- Received outstanding recognition and provided detailed presentation for the team on how to efficiently debug iOS UI

Client : Avanade, Devops Engineer and Powerapps developer for internal tools

- Used Azure CLI and Azure resource manager to deploy and manage containers
- Created Kubernetes object and cluster to enhance management of the resources by a factor of 10
- Developed Infrastructure as code using terraform to define and setup the infrastructure
- Designed and developed a canvas app using powerapps and power automate to help business teams in managing the incoming projects in USA

Co-ops and Internships

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

Stars Technologies

Toronto, ON

Mobile Developer (Java, Swift)

Sep. 2019 - Aug. 2020

- Wrote unit tests to achieve 93% coverage of iOS code base and developed internal debugging tools which improved QA team testing performance
- Introduced new debugging tools for the mobile development team which enhanced the debugging of memory corruption bugs resulted in 10% faster development

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 and developed the initial MVP for demo purposes
- Went through YC Startup school and built demo MVP, presentation, customer feedback loop and business plan for potential investors

Crelhub (Real Estate Listing HUB)

Toronto, ON

Machine Learning Engineer (JavaScript, Python, Pytorch)

May. 2020 - Oct. 2020

- 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
- Implemented web application and realtor dashboard using React, Express, Node featuring <50ms latency WebRTC live open house feature

Watonomous - SAE Design Team

Waterloo, ON

Making Waterloo's self-driving Bolt EV reach SAE level 4 autonomy (C++)

Sep. 2019 - May. 2020

- Led the software development team to create an occupancy grid from perception input and find the optimal path using A* search algorithm
- Architected the software pipeline which controls the vehicle, from sensor data consumption to controls actuation in ROS and C++
- Introduced formal project specifications for cross-divisional projects, increasing cross-divisional cohesion. The work required team leads to design and track OKRs and Gantt charts to meet the deadlines set for each development cycle and got the 3rd place overall for 2020 competition

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

Certifications

Azure Certifications :

AZ-900 - Azure Fundamentals
AZ-204 - Azure Developer Associate
AZ-305 - Azure Solutions Architect Expert
PL-900 - Microsoft PowerPlatform Fundamentals
AZ-220 - Azure IoT Developer Specialty
DP-900 - Azure Data Fundamentals
AZ-104 - Azure Administrator Associate
AI-900 - Azure AI Fundamentals
AI-100 - Azure AI Engineer Associate