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github.com/manthan98

MANTHAN SHAH

Skills Summary

- *Languages*: Swift, Objective-C, C#, C++, JavaScript, MATLAB, R, SQL.
- **Tools/Frameworks**: Cocoa Touch, Core Data, XCTest, Node.js, ASP.NET, Unity, Entity,
- Experience with iOS SDK – UI design/autolayout, networking, concurrency, and internal APIs.
- Passionate for engineering, software development, and product management.

Work Experience

OANDA Corporation
Mobile Developer, Co-op

Toronto, ON
Jan 2018 – Apr 2018

- Working on iOS application team for forex and CFD trading platforms in Swift and Objective-C.
- Implemented third-party trade performance analytics for fxTrade application, increasing user exposure to risk management statistics.
- Contributing to internal networking and API layers – Model Kit and HTTP compression endpoints.

Advanced Interface Design Lab
Undergraduate Research Assistant

Waterloo, ON
Sept 2017 – Dec 2017

- Worked on mixed-reality mechanisms for object-tracking using image and tag recognition.
- Prototyped an AR HoloLens application using C# and Unity for usability and vision research.

RBC Financial Group
Technical Systems Analyst, Co-op

Toronto, ON
May 2017 – Aug 2017

- Designed, coded, and deployed a database migration service application to simplify DB upgrades.
- Engineered a high-volume inventory analyzer tool in C# for database instance accuracy measures.
- Developed an interactive dashboard in C# and ASP.NET for metrics visualization of databases,
- Optimized application layers with a threaded-architecture improving performance by 2x.

Projects

Parkinson's Freezing of Gait
Sep 2017 – Dec 2017

- Embedded device that processes gyroscope signals and provides somatosensory feedback.
- Implemented simulation models in MATLAB, and a classification algorithm in Arduino and C.

Where's the FoodTruck?
Mar 2017

- Collaborative mobile platform for iOS that lets users view, add, and review local food trucks.
- Wrote a RESTful API service in Node, Express, and MongoDB for authentication, reviews, and info.

Education

University of Waterloo
BASc in Biomedical Engineering

Apr 2021 (Expected)

- 83% average; Funding Council Member, Engineering Ambassador, Intramural Soccer team.
- **Courses**: Data structures & algorithms; Prototyping, Simulation, & Design; Digital Computation.