Essa Saeed

Honours Software Engineering University of Waterloo · Class of 2020

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Skills

- Programming: JavaScript, C++, Python, Swift, Java, C, SQL, Objective-C, Assembly
- Web Development: Node.js, Express.js, TypeScript, Flask, HTML, CSS, jQuery, Bootstrap
- Tools: AWS, Docker, Tensorflow, Caffe, OpenCV, Cordova, Fiddler, Git, JIRA
- Interests: Distributed Systems, Concurrency, IoT, Real Time Services, Machine Learning

Experience

Index Exchange Inc.
Software Engineering Intern

May. 2018 - Aug. 2018 Kitchener, Ontario

Upcoming work/co-op term democratizing digital advertising on the backend team

Mappedin Inc.
Software Developer Intern

Sep. 2017 - Dec. 2017 Kitchener, Ontario

Node.js | Python | Swift | Docker | Tensorflow | OpenCV | TypeScript | Webpack | AWS S3 | Git

- Built prototype real time face recognition application from scratch to run in dockerized container leveraging WebSockets, computer vision and convolutional neural networks
- Built prototype real time position tracking and geofencing service to notify users over
 WebSockets from scratch, with a data pipeline from RFID, routing and a user API library
- Developed binary deserialization tool for parsing map data using prototypal inheritance

SAP SE Mobile Developer Intern Jan. 2017 - Apr. 2017 Waterloo, Ontario

JavaScript | Node.js | Objective-C | Cordova/Ionic | Maven | SAPUI5 | SAP HANA | Gerrit

- Developed mobile plugin to import certificates reducing authentication time by ~2.67s
- Maintained mobile SDK and shipped fixes for OAuth 2, the InAppBrowser and AuthProxy
- Presented a reverse proxy cache solution to simplify bug reproduction for debugging

Projects

- Website: Made cafeonroute.ca for restaurant using Google APIs, AWS EC2 and Route53
- iOS App: Created and published "Quran Daily Selections" with over 100 downloads
- Android App: Singleton model quiz application using the MVC pattern and XML layouts
- Web App: Parsing JSON from APIs to make recommendations leveraging localStorage
- Course Project: Compiler for a subset of C that uses abstract syntax trees and grammars

Relevant Courses

Algorithms, Operating Systems, Data Structures, Compilers, Design Patterns, Testing,
 Computer Hardware, Digital Circuits, Logic, Statistics, Discrete Math, Linear Algebra