

MOHAMED MOUSSA

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TECHNICAL SKILLS

- **Languages:** Python, JavaScript, Java, C++, HTML, CSS, MS DOS
- **Frameworks:** Django, Flask, React, Redux, Node.js, Express.js, jQuery, Bootstrap, Materialize CSS
- **Tools:** Android SDK, Unity, Git, APIs, Nginx, Unix shell, Arduino IDE, Firebase, Webpack, Babel
- **Hardware:** Arduino, Raspberry Pi, Myo armband, Leap Motion

PROFESSIONAL EXPERIENCE

TribalScale - Agile Software Engineer

May 2016 – Aug 2016

- Engineered a production-ready website for Athos built with JavaScript, React, Redux, Sass, HTML, and Webpack
- Optimized static asset delivery by minifying files to **reduce size by up to 70%** and hashing filenames for caching
- Contributed architectural decisions and code refactors **saving thousands of lines of code**
- Improved JavaScript and Sass code quality by setting up linting and requiring it through pre-commit git hooks

TD Innovation Lab - Solutions Developer

Sept 2015 – Dec 2015

- Took innovative products from problem statement to **full prototype in 3-6 weeks**, including ideation, design, development, user testing, and finally demoing to top bank executives
- Researched and integrated with both internal and third-party APIs and software, including open-source projects
- Used tools including JavaScript, Python, Java, HTML, CSS, JSON, Node.js, Express.js, and Android Studio
- Selected as **one of two students out of twelve** to represent TD Lab at a senior management conference

Unitron Hearing - Software QA Analyst/Developer

Jan 2015 – Apr 2015

- Scripted application using MS DOS to automate day-to-day logistics for company employees and **save up to 50 minutes each day**; a self-initiated project
- Thoroughly tested software, finding bugs that had existed but not been found in previous releases
- Identified and implemented improvements to test cases and documents for new employees

PROJECTS

Iqra

Jan 2016 – Present

- Created a native Android app for searching the Quran through speech recognition
- Built a RESTful Flask API that integrates with several open-source projects and SQLite
- Currently has over **5000 downloads** and a **4.8/5 star rating** in the Play store
- Pursuing further development to replicate the Android app as a native iOS app and a web application

UW MSA

Feb 2015 – Dec 2015

- Built websites, an Android app, and internal tools for the MSA's data analysis, event promotion, and fundraising
- Used Python, Django, JavaScript, HTML, CSS, Bootstrap, JSON, Java, XML, Android Studio, and Parse
- Generated **over \$500 in revenue** through new technical projects

Signup Block

Mar 2015

- Created Signup Block: a Chrome and Firefox browser extension for removing signup popups
- Built and released first version in a single day, with more than **1700 active users** now
- Developed using JavaScript, jQuery, and JSON

AWARDS

- **Top 5** at the 2016 Connected Lab and IBM Watson IoT Hackathon
- **\$500 prize for Best Use of Open Data** at the 2014 Nspire 24 Hour Startup competition
- **2nd place** at the Fall 2014 UW EngHack
- **President's Scholarship of Distinction** from University of Waterloo for entrance average above 95%

EDUCATION

- Candidate for BSc in Honours Systems Design Engineering, Co-op, University of Waterloo, Class of 2019