

MOHAMED MOUSSA - Systems Design Engineering

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PROFESSIONAL EXPERIENCE

TD Innovation Lab

Sept 2015 – Dec 2015

Solutions Developer

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

Unitron Hearing

Jan 2015 – Apr 2015

Software QA Analyst/Developer

- 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
- Created documentation for self-initiated application to support future maintenance and improvement
- 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

VOLUNTEER EXPERIENCE

UW MSA

Feb 2015 – Dec 2015

Developer

- Built websites and internal tools for data analysis, event promotion, and fundraising using Python, Django, JavaScript, HTML, CSS, Bootstrap, and JSON
- Created a native Android application using Java, XML, Android Studio, and Parse
- Became familiar with small team collaboration tools including Slack, Asana, Doodle, and InVision

Enactus Waterloo

Jan 2015 – Aug 2015

Developer

- Built the organization's website enactuswaterloo.com from the ground up, as part of a small team
- Led a team in designing and building an infrastructure for rapidly creating websites for local businesses
- Used Python, Django, HTML, CSS, and Bootstrap to build dynamic and responsive websites
- Managed projects and product development

EDUCATION

- Candidate for BAsC, Systems Design Engineering, University of Waterloo, Class of 2019

TECHNICAL SKILLS

- **Languages:** Python, JavaScript, Java, C++, HTML, CSS, MS DOS
- **Frameworks:** Django, Flask, Bottle, TkInter, Meteor, Node.js, Express, jQuery, Bootstrap, Materialize
- **Tools:** Android Studio, Unity, Git, GitHub, BitBucket, SourceTree, APIs, Nginx, Unix shell, Arduino IDE, Parse, Firebase
- **Data formats:** JSON, XML, Unicode
- **Hardware:** Arduino, Raspberry Pi, Myo armband, Leap Motion

PERSONAL PROJECTS

Iqra

January 2016

- Created an Android app for searching the Quran through speech recognition
- Built a RESTful API that integrates with several open-source projects
- Developed using Python, Flask, Java, HTML, CSS, JavaScript, JSON, and XML
- Currently has over **4300 downloads** and a **4.8/5 star rating** in the Play store

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
- Developed using JavaScript, jQuery, and JSON
- Currently has over **1300 active users**

AWARDS

- **\$500 prize for Best Use of Open Data** at 2014 Nspire 24 Hour Startup competition for a startup integrating open data, a web portal, and a mobile app for gathering city resource usage information
- **2nd place** at Fall 2014 UW EngHack for a computer game played using the Myo armband
- **President's Scholarship of Distinction** from University of Waterloo for entrance average above 95%

INTERESTS

- **Programming:** Enjoy attending hackathons; developed most of programming skills separately from regular education
- **Cycling:** Frequently cycle for pleasure
- **History:** Usually the one holding up the group while visiting museums