

# 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
- Took innovative products from problem statement to full prototype in 3-5 weeks, including ideation, design, development, and user testing, and then demoed prototypes to top bank executives
- 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

### **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 improve productivity, 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 and maintained websites, apps, and internal tools for data analysis, event promotion, and fundraising
- Used a variety of languages and tools including Python, Javascript, HTML, CSS, Django, and Java
- Became familiar with small team collaboration tools including Slack, Asana, Doodle, InVision, and others

### **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
- Gained experience using Python, Django, HTML, CSS, and Bootstrap to build a dynamic and responsive website
- Obtained project management experience while managing website development and deadlines

## 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, Bottle, Flask, TkInter, Meteor, Node, Express, jQuery, Bootstrap
- **Tools:** Android Studio, Xcode, AWS, Git, GitHub, BitBucket, SourceTree, Unity, APIs
- **Data formats:** JSON, XML, Unicode
- **Hardware:** Arduino, Raspberry Pi, Myo armband, Leap Motion

## PERSONAL PROJECTS

### **RamadanHub.com**

**June 2015**

- Created a website with useful resources for the Islamic month of Ramadan
- Developed using HTML, CSS, Bootstrap, Python, Django, JSON, and data from multiple APIs
- Monetized the site through sponsors
- Had approximately **900 unique visitors in one month**

### **Signup Block**

**Mar 2015**

- Created Signup Block, a Chrome and Firefox browser extension for removing signup popups
- Developed and released first version in one day
- Built using JavaScript, jQuery, and JSON
- Currently has over **500 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
- **2<sup>nd</sup> 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%
- **Proficiency awards in Mathematics and French** from high school for highest marks among graduating class
- **Honourable Mention Award** at Hamilton Model United Nations 2014 conference

## INTERESTS

- **Programming:** Enjoy attending hackathons; developed most of programming skills separately from regular education
- **Cycling:** Frequently cycle for pleasure