

# MOHAMED MOUSSA - Systems Design Engineering

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## PROFESSIONAL EXPERIENCE

### Unitron Hearing

Jan – May 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
- Gained experience comparing data logs and performing sanity testing

## VOLUNTEER EXPERIENCE

### Enactus Waterloo

Jan 2015 – Present

*Developer*

- Built the organization's website enactuswaterloo.com from the ground up, as part of a small team
- Gained experience using HTML, CSS, Bootstrap, Python, and Django to build a dynamic and responsive website with a database
- Obtained project management experience while managing website development and deadlines

### UW MSA

Feb 2015 – Present

*Developer*

- Scraped a website with multiple languages for data integration with other services using a Python script
- Updated the club's website, uwmsa.com
- Documented procedural steps using MediaWiki
- Became familiar with small team collaboration tools including Slack, Asana, Doodle, and others

## PERSONAL PROJECTS

### Signup Block

March 2015

- Created Signup Block, a Chrome and Firefox browser extension for removing signup popups
- Developed first versions in less than 36 hours at Hack Western and continuously updating project
- Built using JavaScript, jQuery, and JSON
- Acquired **70 active users in 1.5 months**

### StudySpaceUW.com

March 2015

- Created a tool for finding empty classrooms to study in at the University of Waterloo
- Developed the full website using HTML, CSS, Bootstrap, Python, and Django
- Developed and deployed the site individually in under 24 hours at UW EngHack hackathon

## TECHNICAL SKILLS

- **Languages:** Python, C++, C#, Lua, Swift, HTML, CSS, Javascript (+ jQuery), MS DOS
- **Frameworks:** Bootstrap, Django, Bottle
- **Tools:** Git, Xcode, AWS, APIs
- **Data formats:** JSON, XML, Unicode

## 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 hackathon 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
- **3m Springboard Finalist** at 2011 and 2012 national diving competitions

## EDUCATION

- Candidate for BAsC, Systems Design Engineering, University of Waterloo, Class of 2019, Average: 83%
- International Baccalaureate Diploma, Ontario Secondary School Diploma, and Cameron International Studies Certificate, Cameron Heights Collegiate Institute, Kitchener, ON, Sept 2010 – June 2014, Average: 96.5%

## INTERESTS

- **Programming:** Attended 5 hackathons in the past year, and most of web-development and programming skills gained separately from regular education
- **Springboard and platform diving:** Balanced 20-25 hours of training and travelling per week during high school as a National Level diver along with maintaining an average of 96.5%
- **Cycling:** Frequently cycle for pleasure