

# MOHAMED MOUSSA - 1B Systems Design Engineering

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## TECHNICAL SKILLS

- **Python:** Proficient with scripts and applications; experienced with back-end web development using Django and Bottle
- **HTML, CSS:** Experienced with front-end web development through designing and building many websites
- **JavaScript, jQuery:** Experienced with developing Chrome and Firefox extensions
- **C++, C#, Lua, Swift:** Completed one or more projects with each, including applications, games, and Myo scripts
- **Microsoft DOS:** Wrote several applications and scripts in order to automate and run background processes
- **Git:** Frequently use Git in combination with GitHub for version control of projects
- **JSON, XML, Unicode:** Have completed projects reading and manipulating all of these data formats

## EXPERIENCE

### **Software QA Analyst/Developer** at Unitron Hearing

**Jan – May 2015**

- Programmed and wrote documentation for an application to automate frequently repeated tasks, a self-initiated project
- Tested software carefully, finding bugs that had existed but not been found in previous releases
- Discovered and implemented improvements to test cases and documents for new employees
- Gained improved understanding of software testing procedures, Microsoft DOS, and the Windows operating system
- Frequently commended for creative and entrepreneurial mindset

### **Developer** at University of Waterloo Muslim Student Association

**Feb 2015 – Present**

- Created Python and Google scripts along with regularly revising the club's website, uwmsa.com, using Wordpress
- Created documentation using MediaWiki and frequently communicated online with team members in various locations
- Became familiar with small team collaboration tools including Slack, Asana, Doodle, and others

### **Senior Developer** at Enactus Waterloo

**Jan 2015 – Present**

- Contributed to project development and built the organization's website, enactuswaterloo.com, as part of a small team
- Gained web development experience using HTML, CSS, Bootstrap, Python, and Django

## 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 using JavaScript, jQuery, and JSON
- Grew user base to around **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
- Individually developed and deployed the site in under 24 hours

## AWARDS

- 2014 Nspire 24 Hour Startup competition: Won the **\$500 prize for Best Use of Open Data**
- Fall 2014 UW EngHack hackathon: Won **2<sup>nd</sup> place** for a computer game played using the Myo armband
- Hamilton Model United Nations 2014 conference: Received an **Honourable Mention Award**
- 2011 and 2012 national diving competitions: **Finalist** in the 3m springboard event

## EDUCATION

### **Candidate for BASc, Systems Design Engineering, University of Waterloo, Waterloo, ON**

**Class of 2019**

- Received University of Waterloo President's Scholarship of Distinction

### **International Baccalaureate Diploma, Ontario Secondary School Diploma, and Cameron International**

#### **Studies Certificate, Cameron Heights Collegiate Institute, Kitchener, ON**

**Sept 2010 – June 2014**

- Proficiency awards in Mathematics and French for the highest mark among the graduating class
- School letters for strength in academics and significant participation in extracurricular activities

## INTERESTS

- **Programming:** 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 as a National Level diver along with maintaining an outstanding high school average of 96.5%