

MOHAMED MOUSTAFA

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EDUCATION

University of Toronto – Toronto, Canada

Aug 2020

Honours Bachelor of Science, Computer Science

University of Toronto Scarborough Letter Award (2020)

SKILLS

Languages: Proficient in C/C++, JavaScript, TypeScript, Java, Python

Frameworks: React, NodeJS, LLVM, Flask, Material UI

EXPERIENCE

University of Toronto – Toronto, Canada

Teaching Assistant, Computer Science

Sep 2017 – Present

- Utilized techniques in education to design and deliver engaging lessons in the form of weekly tutorials, teaching over 200 students to date
- Encouraged student improvement through constructive feedback provided while marking courses evaluations such as assignments, midterms, and exams
- Taught the following courses: Introduction to Computer Science I & II (6x), **Operating Systems (2x)**, Principles of Programming Languages, **Software Design**

Software Engineer & Researcher

May 2018 - Aug 2018

- Recipient of the Undergraduate Student Research Award from the Natural Sciences and Engineering Research Council of Canada, valued at over **\$5,700 CAD**
- Developed Python scripts to retrieve and analyze information from multiple sources, which was then tested using the chi-square test to discover significant results within the data set
- Co-authored a paper that was accepted to **SIGCSE 2019**, a major conference in Computer Science

Ontario Ministry of Education – Toronto, Canada

IT Architecture Assistant

Sep 2017 – Dec 2017

- Engineered an in-house search engine solution for effective querying of ministry documents, which was previously done manually over the course of several weeks, using **Spring Boot**, expediting the knowledge collection phase
- Utilized **OracleXE**, **Java**, and **IBM's Watson API** to create module object models and create a standardized scoring system for document searches

LEADERSHIP

Instructional Centre II Project Planning Committee - Toronto, Canada

Student Member

Aug 2018 – Present

- Sole student member** on a committee responsible for planning an instructional building that will provide classrooms for over 2000 students
- Members of the committee include the **Chief Administrative Officer** of the campus, **multiple deans**, several professors, and two teams of architects

Association of Mathematical & Computer Science Students - Toronto, Canada

President

May 2018 – Apr 2019

- Held various leadership positions in a student organization responsible for advocating for over 1500 computer science, statistics, and math students on campus. Joined in Sep 2016 and became the president of the organization in May 2018
- Collaborated extensively with faculty and admin staff, building strong relationships with the chair of the department and various professors

Hack The Valley - Toronto, Canada

Organizer

Sep 2016 – Feb 2018

- Hack The Valley is an internationally recognized 36-hour hackathon that brings in over 3000 applications from across 4 continents
- Managed a team of more than 22 volunteers, mentors, and other staff members, resulting in smooth logistics for 300+ attendees, and stellar reviews regarding customer service
- Spearheaded the attendee registration, food, equipment usage, and sponsored workshops, ensuring on time support was always available