




Mohamed Aly

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 Markham, ON

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Technical Strengths

Programming languages:

Python (proficient), HTML
(competent)

Tools:

PyCharm, MATLAB, Autodesk Inventor, MS
Office (Word, Excel, PowerPoint), Slicer

Operating systems:

Windows

Interests:

Telecommunications, Cyber
Security, Cloud Computing, 5G
Networks, Internet Systems

Education

University of McMaster BAsC

Computer Engineering 2019 to
Present | Hamilton, ON

Bur Oak Secondary School

Ontario Secondary School Diploma
2015 to 2019 | Markham, ON

Awards/Distinctions

Academic Excellence Scholarship
Recipient at McMaster University

YRDSB Volleyball All Star 2017-2018

Physics Award for Overall
Excellence YRDSB

Volleyball National Bronze Medallist
in Calgary

Honour Roll 2015 to 2019

Additional Interests

Sports: Volleyball, Geography,
Cartography, Poetry

Technical Experience

Web Developer | Venom Volleyball

January 2019 to August 2019 | Markham

- Updating website with given **information and graphics** by request from business owner
- Created a **friendly user interface** for all audiences
Maintained **customer registration database** from online entries to usable data using **Excel** which reduced the time to collect data about clients from **2 hours to a few minutes**

Delta Hacks Hackathon Participant | McMaster University

January 2020 | Hamilton

- Participated in workshops over a span of two days that included **Adobe** workshop, Intro to **Arduino**, and **Web Development** workshop.
- Brainstormed solutions to **real world problems** and attempted to solve such problems and **implement the solution in the form of an application** for users to utilize

Volunteer/Work Experience

Freelance Lifeguard/ Swim Instructor

July 2018 to Present | GTA

- Founded and operated a **personal first aiding and lifeguarding business**
- Advertised business and **replied to customer requests** and questions effectively

Head Volleyball Coach | Venom Volleyball

November 2018 to August 2019 | Richmond Hill

- Planned and organized practices for volleyball players from different age groups and skill levels
- Communicated with co-workers consistently to maintain an **effective working environment**

Relevant Courses / Projects

Python Programming and Computation | GPA: 4.0

- Utilized python to automate mathematical equations and conversions
- Used **PyCharm** as an IDE to complete given tasks with high efficiency
- Designed an interactive role-playing game that applies essential python skills taught such as **conditional loops, classes and objects**

Engineering Design and Graphics | GPA: 3.9

Utilized **Autodesk Inventor** to design complex mechanical systems
Created **simulations** of different mechanical systems to validate designs
Designed, digitally simulated, and 3D printed using **Slicer** a fully functional prosthetic hand with fingers using **Inventor** that is operated using a series of gears and axels.

Engineering Professions and Design | GPA: 3.9

Designed and constructed a writing utensil for a client with dystonia, a disability that restricts the ability to write given a set of objectives and constraints
Utilized the **engineering design process** to produce an effective **engineering design** to help the client able to write by almost **10 times in effectiveness**