

# Sharjil Mohsin

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## Education

### McMaster University

Hamilton, ON

B.ENG.MGMT IN SOFTWARE ENGINEERING AND MANAGEMENT, GPA: 3.3/4.0

Sept. 2017 - PRESENT

- **Expected Graduation Date:** April 2023
- **Relevant Courses:** Data Structures and Algorithms, Software Design and Development, Concurrent System Design, Databases

## Work Experience

### McMaster University

Hamilton, ON

TEACHING ASSISTANT

Sept. 2020 - PRESENT

- Ensured **50+** 1st year engineering students understood and implemented concepts on programming, engineering design, engineering professionalism, and material science through related hands-on engineering projects using **Raspberry Pi**, **Python**, and **AutoCAD**.
- **Facilitated** group discussion, **motivated** students to attain personal growth, and **encouraged** skills development.

### FreshCo Ltd.

Oakville, ON

CASHIER

May 2019 - PRESENT

- **Helped** customers out by scanning the items that they purchase from the store, price-matched their items from other competitors, helped out customers who are looking for a specific item and returned items they no longer want, and organized shelves.
- **Oversaw** the store and was the front line for **exceptional** customer service.
- **Responsible** for closing procedures and end-day bookkeeping duties.

## Extracurricular

### McMaster Artificial Intelligence Society

Hamilton, ON

GENERAL MEMBER

Sept. 2018 - PRESENT

- Learned skills required to build an AI project, as well as discussed the impact and the ethical applications of artificial intelligence.
- Implemented machine learning algorithms using **Python** and using tools like **NumPy**, **Matplotlib**, **scikit-learn**, and **TensorFlow**.

### Mohawk College

Hamilton, ON

STUDENT VOLUNTEER

Jul. 2018 - Jul. 2019

- **Directed** and **organized** interactive Internet of Things (IoT) workshops in collaboration with a professor.
- **Instructed** elementary school children about the ways smart devices are involved in everyday life using wireless communications.

## Projects

### COVID-19 Pandemic Tracker App

- Developed a mobile application that retrieves worldwide COVID-19 data and visualizes the number of cases per country and overall.
- Created using **REST API** and **Volley Library**; built in **Java** using **Android Studio**.

### Pac-Man Desktop Edition

- Designed an interactive **JavaScript** app using an **object-oriented** approach in an **agile environment** to create a desktop implementation of the original Pac-Man arcade game.
- Performed **automated testing** using **Mocha** to ensure high software quality and stability.
- Authored comprehensive **design documents** and **system requirements specifications** complete with UML diagrams.

### UEFA Euro 2016 Database

- Composed a database for the UEFA Euro 2016 soccer tournament that includes all details such as the matches played, players involved, the bookings given, etc.
- Created the database using **SQL** statements.

### Personal Website

- Designed a personal website from scratch that hosts my portfolio to showcase my side projects and interests.
- Created the website using **HTML**, **CSS**, and **JavaScript**, and using tools like **Bootstrap**.

## Skills

**Languages** Java, Python, C, C++, C#, Go, JavaScript, HTML/CSS, Verilog, Bash, SQL, MATLAB

**Frameworks/Tools** Git, TensorFlow, scikit-learn, LaTeX, Doxygen, OpenCV, Bootstrap, AutoCAD, Photoshop, Premiere Pro, Microsoft Office