

# Aaron Rajan

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## EDUCATION

### McMaster University (B.Eng.Mgt)

Hamilton, ON

*Bachelor of Computer Engineering and Management, GPA: 3.99/4.00*

*Sept. 2020 – Apr. 2025*

- McMaster Honour Award (Dec 2020) | Dean's Honour List (Fall 2020 - Winter 2021)

## TECHNICAL SKILLS

**Languages:** Java • Python • C/C++ • Verilog • MATLAB • R • LaTeX

**Web Development:** HTML • CSS • JavaScript

**Tools:** Git/GitHub • MS Office • VS Code • Eclipse • AutoCAD • Quartus II • Raspberry Pi • Arduino • RStudio

## PROJECTS

### System for Sorting and Recycling Containers [↗](#) | Manager, Python Developer

Jan 2021 – March 2021

- Led a team of 4 in designing a system of **dynamic simulation parts** and **Python code** to recycle containers.
- Created a mechanism to classify containers using **data from virtual environment (Q-labs)**, analyze container for contamination, and transfer container to correct bin for recycling.
- Expanded skills and knowledge of **smart devices** and **group leadership**.

### Management System [↗](#) | Java Developer

April 2021 - May 2021

- Designed an employee management system which tracks the names, IDs, and wages of its employees and optimizes the process of managing employee data using **Java File I/O**.
- Implemented features, allowing for the addition to, removal from, alteration, search, and deletion of employee files.
- Learned the essentials of undertaking a solo coding project, which include **time management**, strong **work ethic**, and the **adaptability** to learn during a project.

### Currency Converter [↗](#) | Java Developer

May 2021 - June 2021

- Developed a converter between all currencies in **Java** using **JSON files** and an **API conversion system**.
- Devised a simple, interactive graphical user interface (**UI/UX**) to enhance user experience using **Java Swing**.

## EXPERIENCE

### Head Lifeguard [↗](#)

July 2021 - Sept. 2021

*PPL*

*Mississauga, ON*

- Supervised and interacted with **100+** residents weekly while securing their safety.
- Handled **responsibility** by maintaining and performing regular checkups on pool chemical levels.

## EXTRACURRICULAR

### Circuitry Sub-Team Member [↗](#)

Sept. 2021 – Present.

*Chem-E Car Team | McMaster University*

*Hamilton, ON*

- Collaborated with **10+** teammates to design a car that can travel a set distance carrying a load using sensor data.
- Coded in **C/C++**, soldered circuits, and worked with an **Arduino** and **Raspberry Pi** to create the car's circuitry framework
- Worked collaboratively with a team of developers in the **Linux environment** with weekly progress meetings.

### Gym Supervisor [↗](#)

Dec. 2017 – Jan. 2019

*YMCA*

*Mississauga, ON*

- Set up games and activities for **50+** children aged 7-15 **at a time**.
- Led youth instructional sports, teaching fundamentals and monitoring their improvement while enjoying the sport.
- Assisted **750+** YMCA members as they entered the facility at the front desk.

### Math and English Instructor [↗](#)

June 2016 – Jan. 2017

*Kumon*

*Mississauga, ON*

- Evaluated and helped with **1000+** math/English homework booklets of content from grades 1 to 12.
- Provided feedback and guidance to **500+** children who struggled with math concepts.