

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

Sep. 2020 – Apr. 2025

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

TECHNICAL SKILLS

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

Web Development: HTML • CSS • React.js • Node.js

Tools: Git/GitHub • VS Code • Eclipse • Agile • Quartus II • Raspberry Pi • Arduino • RStudio • Linux

PROJECTS

Currency Converter [↗](#) | Java Developer

May 2021 – Jun. 2021

- Developed a converter between **170+** 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**.

Management System [↗](#) | Java Developer

Apr. 2021 – May 2021

- Designed a management system which tracks the names, IDs, and wages of employees, optimizing the time needed to manage employee data by **70%** using **Java File I/O**.
- Implemented features, allowing for the addition to, removal from, alteration, search, and deletion of employee files.

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

Jan 2021 – Mar. 2021

- Designed a system of **dynamic simulation parts** and **Python code** to recycle containers.
- Created a code model to classify containers using data from a virtual environment (**Q-labs**) and transfer them to bins depending on their level of contamination in under 30 seconds.
- Led a team of 4 by creating **Gantt charts**, organizing team meetings, and delivering weekly progress reports.

EXTRACURRICULAR

Web Developer [↗](#)

Oct. 2021 – Present.

Artificial Intelligence Society | McMaster University

Hamilton, ON

- Developed and regularly maintained the AI Society website built using **React.js** and **Node.js** to improve club outreach by **40%**.
- Collaborated with a programming team, practicing **Agile software development** through progress meetings.

Circuitry Sub-Team Member [↗](#)

Sep. 2021 – Present.

Chem-E Car Team | McMaster University

Hamilton, ON

- Collaborated with **10+** teammates to design a car that can travel a set distance of 50'-100' carrying a load using sensor data in the **Linux environment**.
- Coded in **C/C++**, soldered circuits, and worked with an **Arduino** and **Raspberry Pi** to create the car's circuitry framework.

Gym Supervisor [↗](#)

Dec. 2017 – Jan. 2019

YMCA

Mississauga, ON

- Led youth instructional sports, teaching fundamentals and monitoring the improvement of **50+** teens at a time.
- Greeted and assisted **750+** YMCA members as they entered the facility at the front desk.

Math and English Instructor [↗](#)

Jun. 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.

EXPERIENCE

Head Lifeguard [↗](#)

Jul. 2021 – Sep. 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 conditions.