

Gayan Athukorala

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EDUCATION

McMaster University

Sept 2021 – Apr 2025

Bachelor of Engineering, **Software Engineering (Co-op)** – GPA: 3.8/4.0

- **Relevant Courses:** Data Structures and Algorithms, Object Oriented Programming (**Java**), Software Design (**Java**)

SKILLS

- **Languages:** Python, Java, JavaScript, Bash, SQL, HTML, CSS, Gherkin, Arduino, UML, Linux
- **Frameworks:** React, REST, NodeJS, Django, Express, Selenium, NextJS, Flask, Cucumber, Bootstrap, Agile
- **Developer Tools:** AWS, GCP, Jira, Confluence, Git, Bitbucket, GitHub, MS-Excel, Visual Studio Code

WORK EXPERIENCE

Ontario Health

May 2023 – Aug 2023

Software Developer Intern

Toronto, ON

- Led a team of 3 developers to implement **AI/ML** into the Provincial Healthcare Search Directory to process queries, using **Sentence Transformers, Python, NumPy**, and **Pandas**, **increasing the accuracy of search results by 80+%**
- Architected and deployed the **AI/ML** searching feature, using **AWS, Docker**, and **Elasticsearch**, allowing it to be used by **30,000+** physicians in Ontario
- Automated the deletion of old **AWS S3** files to allow for rapid cloud deployment, using **AWS Lambda** and **Python**, eliminating manual file clean up and **increasing efficiency by over 200%**
- Streamlined **AWS** API log analysis by deploying a **Linux**-based logging server with **Elasticsearch, Logstash**, and **Kibana**, improving log accessibility and API troubleshooting speed

Tech Mahindra

May 2022 – Aug 2022

Jr. Software Engineer Intern

Toronto, ON

- Enhanced the functionality for Scotiabank's mortgage application by automating testing for **5+ user workflows**, using **Java, SQL, Selenium**, and **Cucumber**, ensuring a flawless user experience and **optimizing testing efficiency by 15%**
- Collaborated on code with **12 team members**, using version control, issue tracking, and program management tools such as **Git, Bitbucket, Jira**, and **Confluence** in a fast-paced **Agile** environment
- Authored comprehensive documentation and presented technical walkthroughs to core product stakeholders

PERSONAL PROJECTS

[Local Love](#) | **DeltaHacks 9** | *Python, React, Django, SQL, REST API, JavaScript, HTML, CSS*

January 2023

- Led a team of 3 programmers to develop a full-stack web application that connects consumers to local restaurants, using **JavaScript, Python, React, REST API, Django, HTML, CSS**, and **Git**
- Utilized the **Google Maps API** and created an **SQL database** containing the 50 largest food chains, to exclude large franchises from the user's search results when looking for restaurants, helping promote small businesses

[Verses](#) | **Hack Western 9 – WINNER** | *JavaScript, React, Node.js, Express, HTML, CSS*

November 2022

- Built a music quiz app that randomly generates questions about the user's music taste, utilizing **JavaScript, React, HTML, CSS, Node.js, Express**, and **Git**
- Used the **Spotify API** to get data on the user's current most listened to artists and songs, which were passed as parameters in various question templates, generating **500,000+ unique questions** for each user
- Awarded the **Organizer's Choice Award** out of **400+ registrants** and **70+ projects**

[Island Generator](#) | *Java, Maven*

April 2022

- Developed an end-to-end Island Generator with 15 customizable features, following **Agile, OOP**, and **unit testing** principles, using **Java, Maven**, and **Git**

LEADERSHIP EXPERIENCE

McMaster Rocketry Team

Nov 2021 – April 2023

Payload Sub-Team Lead

Hamilton, ON

- Managed a team of 4 engineers to design a rocket payload that uses a **Raspberry Pi microcontroller** programmed in **Python** and 4 temperature sensors to collect humidity data from the atmosphere to predict extreme weather events
- Organized team meetings and directed 3 other members, ensuring that deliverables were completed on time, resulting in the team's first successful launch and the **rocket reaching an altitude of 10,000 ft.**