

# 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, RESTful API, NodeJS, Django, Express, Selenium, Next.js, Flask, Cucumber, Bootstrap, Agile
- **Developer Tools:** AWS, GCP, Jira, Confluence, Git, Bitbucket, GitHub, MS-Excel

## WORK EXPERIENCE

### Scotiabank

Sept 2023 – Present

Cloud Security Engineer Intern

Toronto, ON

- Developed a desktop app to gather and visualize logs for code scanning tools, using **JavaScript, React, Python, Flask, Docker, Electron**, and **MongoDB**, enhancing data analysis and **reducing log retrieval time by 21%**
- Revamped container security by updating Aqua Security images in **Google Cloud** using **Docker**, enabling advanced vulnerability detection within containers
- Automated regression testing for cloud security tools using **Google Cloud, Python, Bash, Postman**, and **Docker**, **increasing testing accuracy and speed by 28%**

### Ontario Health

May 2023 – Aug 2023

Software Developer Intern

Toronto, ON

- Led a team of 4 to implement **AI/ML** into the Provincial Healthcare Search Directory to process queries with **NLP**, using **Sentence Transformers, Python, NumPy**, and **Pandas**, **improving the accuracy of search results by 35%**
- 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 a banking mortgage application by automating testing for **5+ user workflows**, using **Java, SQL**, and **Selenium** 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

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

- Built a music quiz app that randomly generates questions about the user's music taste, utilizing **JavaScript, React, HTML, CSS, Node.js**, and **Express**, winning the **Organizer's Choice Award** out of **400+ registrants** and **70+ projects**
- 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

## LEADERSHIP EXPERIENCE

### McMaster Rocketry Team

Nov 2021 – April 2023

Payload Sub-Team

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.**