Gayan Athukorala

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EDUCATION

McMaster University   Sept 2021 – April 2025
B.Eng in Software Engineering (Co-op)   *Hamilton, ON*
- **GPA:** 3.8/4.0
- **Relevant Courses:** Data Structures and Algorithms, Concurrent Programming (**Python**), Software Design

TECHNICAL SKILLS

Languages: Python, Postgres, Golang, JavaScript, Java, TypeScript, HTML, CSS, Bash, SQL, UML, Linux
Frameworks: Flask, React, JUnit, REST API, Node.js, Next.js, Django, Express, Selenium, Agile
Developer Tools: Azure, AWS, Google Cloud, Kubernetes, Docker, MongoDB, Jira, Git, Bitbucket, GitHub, Excel

EXPERIENCE

Scotiabank   Sept 2023 – Dec 2023
Cloud Security Engineer Intern   *Toronto, ON*
- Revamped container security by updating cloud security tools in **GCP**, using **Docker** and **Kubernetes** to deploy the security upgrades within **CI/CD** pipelines, improving vulnerability detection for containers by **3%**
- Developed a dashboard to collect and visualize results from code scans, with **Python**, **Flask**, **React**, **REST API**, **Postgres**, **Linux**, and **Docker**, enhancing data analysis and **reducing log retrieval time by 21%**
- Automated regression testing for cloud security tools in an **Agile** framework using API automation, with **REST API**, **Selenium**, **Python**, **GCP**, and **Docker**, increasing testing speed by **38%**
- Implemented and deployed **Azure policies** using **Terraform** and **Azure DevOps** to protect **Azure SQL databases** by restricting public network access, reducing the risk of data breaches for **10+ databases**

Ontario Health   May 2023 – Aug 2023
Software Developer Intern   *Toronto, ON*
- Led a team of 4 to build an **AI/ML** search API for the Provincial Healthcare Search Directory, using **NLP**, **Sentence Transformers**, **Python**, and **Flask**, resulting in a **45% increase in search result accuracy**
- Deployed the **AI/ML** search feature, with **AWS CloudFormation**, **AWS ECS**, **Fargate**, **Elasticsearch** and **Docker**, allowing it to be used by **30,000+ physicians** in Ontario to provide more relevant patient referrals
- Automated the deletion of outdated files in **AWS S3** to allow for rapid cloud deployment, utilizing **AWS Lambda** and **Python**, eliminating manual file clean-up and **increasing efficiency by over 200%**

Tech Mahindra   May 2022 – Aug 2022
Jr. Software Engineer Intern   *Toronto, ON*
- Enhanced functionality for a banking mortgage application by automating testing for 5 user workflows, using **Excel**, **Java**, **SQL**, and **Selenium**, ensuring a flawless user experience and **optimizing testing efficiency by 15%**
- Collaborated on code with 12 team members, using **Git**, **Bitbucket**, and **Jira**, in a fast-paced **Agile** environment
- Authored comprehensive documentation and presented technical walkthroughs to core product stakeholders

PROJECTS

Verses | **Hack Western 9 - WINNER**
- Built a music quiz app that randomly generates questions about the user's music taste, using **JavaScript**, **React**, and **Node.js**, winning the **Organizer's Choice Award** out of **400+ participants**
- Integrated 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 Lead   *Hamilton, ON*
- Managed a team of 4 engineers to design a rocket payload that collects atmospheric data, using a **Raspberry Pi microcontroller** programmed in **Python** and 4 temperature sensors, 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.**