Mariam Aser

+1 (647) 895-9097

mariam.ata.aser@gmail.com

www.linkedin.com/in/mariamfaisalaser

EDUCATION

University of Toronto | September 2021 – Expected April 2026

BASc in Computer Engineering, Minor in Business

Relevant Courses: Algorithms & Data Structures · Computer Networks I & II · Databases · Internetworking · Programming Languages · Web Programming

WORK EXPERIENCE

Cloud Operations Co-op – Euna Solutions | August 2024 - August 2025

- Managed production multi-cloud infrastructure (AWS, Azure, GCP) supporting 15 SaaS products with high availability and security requirements.
- Enhanced system observability using Datadog (infrastructure monitoring, alert tuning), reducing incident detection time.
- Standardized cross-cloud tagging strategy to improve Wiz security visibility and vulnerability categorization by product and environment.
- Led remediation efforts for high-severity production vulnerabilities identified via Wiz.
- Automated operational workflows using Python APIs, reducing repetitive support workload and improving response time by > 45%.
- Built Athena + QuickSight dashboards to track cloud cost allocation, resource utilization, and spend trends.
- Contributed to SOC 2 Type II audits, ensuring infrastructure and identity controls met compliance standards and remediating findings across multi-cloud environments.
- Engaged in production incident triage and postmortem analysis to improve reliability and prevent recurrence.

Performance: Rated 5/5 ("Outstanding") for ownership, technical execution, and leadership initiative.

PROJECTS

AI-enabled Early Programming Education Tool – Capstone Project | August 2025 – Present

- Designing and deploying a full-stack AI-enabled platform on GCP App Engine with role-based authentication and managed PostgreSQL infrastructure.
- Designing automated validation pipelines to ensure reliable LLM-generated outputs in production.
- Architecting backend services using Django REST with secure API handling.
- Tech: Django REST · PostgreSQL · GCP · React · HTML · TailwindCSS · OpenAI API

"Sloogle" Custom Search Engine | September 2024 - December 2024

- Built distributed web crawler and indexing pipeline in Python.
- Implemented query parsing, ranking logic, and persistent storage layer.
- Integrated OAuth-based authentication and secure session handling.

1on1 Scheduling Website | January 2024 – April 2024

- Designed availability logic and database schema to handle concurrent scheduling requests.
- Built RESTful backend services with secure authentication flows.
- Deployed full-stack app using React + Django REST, and

TECHNICAL SKILLS:

- Cloud & Infrastructure: AWS · Azure · GCP · Terraform · Datadog · Wiz · Athena · QuickSight
- Programming & Scripting: Python · Bash · SQL · C · C++ · JavaScript/TypeScript · HTML/CSS
- Systems & Networking: Linux (CLI, service management, log inspection) · TCP/IP · DNS · HTTP · REST
- Security & Reliability: Production Incident Triage & Response · Vulnerability Remediation · IAM · SOC 2 Compliance · Access Hardening

LEADERSHIP & INVOLVEMENT

President – Women's Circle UofT | January 2022 – July 2024

Embedded Systems Team Member – UofT Robotics Association | September 2023 – December 2023