

Wajd Mariam | wajd.mariam.wm@gmail.com | [Portfolio](#) | [LinkedIn](#)

PROFESSIONAL SUMMARY

Final-year Computer Systems Engineering student with **Government of Canada Reliability Status** and hands-on co-op experience in **DevOps, IT, and Systems Engineering**. Skilled in FPGA design, real-time embedded systems, and automation, with a proven ability to bridge hardware and software to deliver reliable, scalable solutions.

EDUCATION

Bachelor of Engineering, Computer Systems Engineering (Co-op)

Carleton University, Ottawa, ON — *Expected April 2026*

- GPA (B+) | 2024/2025 Dean's Honour List

- Relevant Coursework: Embedded real-time systems, FPGA/Verilog development, Machine learning.

TECHNICAL SKILLS

Languages: Python, C/C++, Java, Bash, SQL, Verilog, Assembly.

Tools/Technologies: Docker, Kubernetes, Jenkins, Gradle, VMware, Git, AWS, Linux, Ansible, FastAPI, GDB.

WORK EXPERIENCE

System Engineer

05, 2025 – 08, 2025

Comtech Solacom Technologies

Gatineau, Quebec

- Assisted in configuring and setting up **Public Safety Answering Point (PSAP)** environments for NG911 systems, ensuring devices and network components operated according to standardized deployment parameters.
- Developed and tested **Python scripts** to parse and extract key diagnostic data from large system log files, improving troubleshooting efficiency and **reducing manual log review time by roughly 25%**.
- Documented the **lab's physical and network topology**, creating detailed diagrams and device mappings that enhanced system traceability and streamlined maintenance.

IT Technician

05, 2024 – 08, 2024

Employment and Social Development Canada

Gatineau, Quebec

- Provided remote technical support for the **Managed Secure File Transfer (MSFT)** system, ensuring **99% operational up-time** for users.
- Automated weekly operational notifications using **Ansible Playbook**, improving response time during system downtime events.
- Developed maintained **Shell** scripts to manage Linux servers, simplifying recurring admin tasks and improving reliability.

Associate Software Engineer (DevOps)

05, 2023 – 12, 2023

IFS – Global Enterprise Software Solution Provider

Kanata, Ontario

- Assisted in developing and maintaining **CI/CD pipelines** using **Jenkins** and **Bamboo**, enhancing **deployment reliability** and **build success rate by ~20%**.
- Deployed and maintained containerized environments using **Docker** and **Kubernetes**, deploying pods in test and staging clusters to ensure consistent build performance across environments.
- Automated build and deployment workflows with **PowerShell** and **Python**, reducing manual setup time by **~30%** and improving workflow consistency.
- Monitored and maintained build environments, resolving configuration and dependency issues to reduce integration failures by **~15%**.

PROJECTS

- FocusCam (Capstone) – AI-based focus-tracking app using MediaPipe, FastAPI, Scikit-Learn, and Firebase for real-time distraction detection.
- SnowBot – Autonomous snow-clearing robot using Raspberry Pi, ESP32, and Firebase with real-time obstacle detection.
- Elevator Control System – Multi-threaded C++ project using UDP sockets and state machines to simulate distributed control.