

AHMED ISMAIL

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Technical Skills

Languages: Python, Java, C, C++, C#, JavaScript, TypeScript, Go, HTML5, CSS, Bash, **SQL, R**

Developer Tools: Git, Mercurial, VirtualBox, **MATLAB**, Eclipse, JIRA, Confluence, Postman, AWS, Linux

Libraries: Bootstrap, Tailwind, TensorFlow, Keras, PyTorch

Frameworks: Flask, React.js, Express.js, Node.js, TestNG, Maven, Spring Boot

Databases/Stores: MySQL, PostgreSQL, MongoDB, Redis, NoSQL

Work Experience

Ross Video Ltd.

September 2025 - December 2025

Software Developer Intern

Ottawa, Canada

- **Co-led** development of an automated video validation framework using **Java, Selenium, Maven, and TestNG**
- **Cut manual regression workload by 50%** through advanced automation framework integration
- Streamlined **Jenkins CI/CD** pipelines across Carbonite Switchers, boosting deployment speed and reliability
- Drove automation adoption across **6+ product groups**, reducing release times and elevating product quality

Nokia

January 2025 – August 2025

Software Developer Intern

Ottawa, Canada

- Built a validation framework using **Python** for 800G Ethernet and optical systems, automating functional testing
- Enhanced **CI/CD** with **REST APIs**, improving test coverage and cutting validation by **45%**
- Migrated legacy **Perl/TCL** test modules to **Python**, improving scalability across **3 product lines**
- Integrated monitoring and log analysis tools using **Splunk**, enhancing debugging speed and performance insights

Faculty of Engineering & Design - Carleton University

September 2024 – December 2024

Teaching Assistant - Computation & Programming, and Data Management

Ottawa, Canada

- Led weekly lab sessions, **mentoring 300+ students** by teaching programming concepts
- Offered personalized one-on-one support to students struggling with **Python** programming

Projects

Football Manager AI Journalist

[GitHub](#) | [Live Demo](#)

Python, Flask, REST API, HTML, CSS, JavaScript, Git

- Built an **AI-powered bot** that simulates football managers' responses in real-time using **Flask & OpenAI GPT**

Money Tracker App

[GitHub](#) | [Live Demo](#)

MongoDB, Express.js, React.js, Node.js

- Developed a **full-stack MERN** finance tracker with real-time analytics and responsive UI

Embedded Firmware - Interrupt-Driven LED & Sound Controller

[GitHub](#) | [Live Demo](#)

Embedded C/C++, MSP432, ARM Cortex-M4, NVIC, GPIO

- Deployed an **interrupt-based** system on the MSP432 using **C** to control LEDs and a buzzer
- Implemented low-level register manipulation and ISR routines, reinforcing understanding of embedded system architecture

Leadership & Extracurricular

elcanadawy1 | [Instagram](#) | [Tiktok](#)

April 2022 - Present

Computer Science Content Creator

- Built a community of **50K+ followers** with **4.25M+ monthly impressions** through educational coding content
- Produced tutorials on **data structures, algorithms, and career development** for aspiring developers

Education

Carleton University

Expected Graduation Date: April 2027

Bachelor of Engineering (B.Eng.), Computer Systems Engineering, 4th Year, GPA: 3.7/4.0

Ottawa, Canada

- Relevant coursework: Data Structures & Algorithms, O-O Programming, Embedded Systems, Operating Systems