

# AHMED ISMAIL

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## Technical Skills

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

**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

<b>Nokia</b>	Incoming Winter 2026
Software Developer Intern	Ottawa, Canada
• Incoming intern for <b>Winter 2026</b> , leveraging <b>Splunk, Python, Docker &amp; Jenkins</b>	
<b>Ross Video Ltd.</b>	September 2025 - December 2025
Software Developer Intern	Ottawa, Canada
• <b>Co-led</b> development of an automated video validation framework using <b>Java, Selenium, Maven</b> , and <b>TestNG</b>	
• <b>Cut manual regression workload by 50%</b> through advanced automation framework integration	
• Streamlined <b>Jenkins CI/CD</b> pipelines across Carbonite Switchers, boosting deployment speed and reliability	
• Drove automation adoption across <b>6+ product groups</b> , reducing release times and elevating product quality	
<b>Nokia</b>	January 2025 – August 2025
Software Developer Intern	Ottawa, Canada
• Built a validation framework using <b>Python</b> for 800G Ethernet and optical systems, automating functional testing	
• Enhanced <b>CI/CD</b> with <b>REST APIs</b> , improving test coverage and cutting validation by <b>45%</b>	
• Migrated legacy <b>Perl/TCL</b> test modules to <b>Python</b> , improving scalability across <b>3 product lines</b>	
• Integrated monitoring and log analysis tools using <b>Splunk</b> , enhancing debugging speed and performance insights	
<b>Faculty of Engineering &amp; Design - Carleton University</b>	September 2024 – December 2024
Teaching Assistant - Computation & Programming, and Data Management	Ottawa, Canada
• Led weekly lab sessions, <b>mentoring 300+ students</b> by teaching programming concepts	
• Offered personalized one-on-one support to students struggling with <b>Python</b> programming	

## Projects

<b>Football Manager AI Journalist</b>	<a href="#">GitHub</a>   <a href="#">Live Demo</a>
Python, Flask, REST API, HTML, CSS, JavaScript, Git	
• Built an <b>AI-powered bot</b> that simulates football managers' responses in real-time using <b>Flask &amp; OpenAI GPT</b>	
<b>Money Tracker App</b>	<a href="#">GitHub</a>   <a href="#">Live Demo</a>
MongoDB, Express.js, React.js, Node.js	
• Developed a <b>full-stack MERN</b> finance tracker with real-time analytics and responsive UI	
<b>Embedded Firmware - Interrupt-Driven LED &amp; Sound Controller</b>	<a href="#">GitHub</a>   <a href="#">Live Demo</a>
Embedded C/C++, MSP432, ARM Cortex-M4, NVIC, GPIO	
• Deployed an <b>interrupt-based</b> system on the MSP432 using <b>C</b> to control LEDs and a buzzer	
• Implemented low-level register manipulation and ISR routines, reinforcing understanding of embedded system architecture	

## Leadership & Extracurricular

<b>elcanadawy1</b>   <a href="#">Instagram</a>   <a href="#">Tiktok</a>	April 2022 - Present
Computer Science Content Creator	
• Built a community of <b>50K+ followers</b> with <b>4.25M+ monthly impressions</b> through educational coding content	
• Produced tutorials on <b>data structures, algorithms, and career development</b> for aspiring developers	

## Education

<b>Carleton University</b>	<b>Expected Graduation Date: April 2027</b>
Bachelor of Engineering (B.Eng.), Computer Systems Engineering, 4th Year, <b>GPA: 3.7/4.0</b>	Ottawa, Canada
• Relevant coursework: Data Structures & Algorithms, O-O Programming, Embedded Systems, Operating Systems	