



AHMED ISMAIL

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Education

Carleton University

September 2022 – April 2027

Bachelor of Engineering (B.Eng.), Computer Systems Engineering, 3rd Year

Ottawa, Canada

- **GPA: 3.7/4.0**
- Featured on Dean's list for the 22/23, 24/25 school years
- Relevant coursework: Data Structures & Algorithms, O-O Programming, Real-Time Systems, Operating Systems

Work Experience

Nokia

January 2025 – August 2025

Software Development Intern

Ottawa, Canada

- Developed a **Python** library with **Selenium** for optical testing, reducing manual testing time for **80+** developers
- Optimized NE communication via **RESTful API**, cutting response time from **250ms to 150ms**
- Reverse-engineered **Perl** & **TCL** in TestSet modules to modernize hardware integration, reducing time by **30%**
- Resolved API and hardware bugs with **Postman** and **Python** tools, cutting critical test failures by **45%**

Faculty of Engineering & Design - Carleton University

September 2024 – December 2024

Teaching Assistant - Computation & Programming, and Data Management

Ottawa, Canada

- Led weekly lab sessions to explain programming concepts and assist students with assignments
- Offered personalized one-on-one support to students struggling with Python programming
- Graded coding assignments using rubrics and provided constructive feedback to help students improve

Projects

Sewy - Football Manager AI Journalist | [GitHub](#) | [Live Demo](#)

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

- Built a responsive UI with **HTML5**, **CSS3**, and **JavaScript**, boosting cross-device usability
- Integrated **GPT-3.5 Turbo** to deliver personalized manager responses, enhancing user engagement
- Developed a **Flask** backend with **RESTful APIs** to enable smooth data exchange and scalable app performance
- Used **python-dotenv** to manage API keys and environment variables, improving security
- Implemented **asynchronous message handling** using **JavaScript's async/await** patterns

MERN Money Tracker App | [GitHub](#) | [Live Demo](#)

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

- Built full-stack money tracker with **React**, **Express**, and **MongoDB** for real-time transaction processing
- Developed secure **RESTful API** with **CORS** and error handling for frontend-backend communication
- Created a **React interface with form validation** and real-time updates for seamless transaction management
- Designed **MongoDB schema** with validation to ensure data integrity for financial transactions

Text-based Social Media Platform

C, VS Code

- Proficiently utilized pointers for dynamic memory management resulting in a **20% reduction in memory usage**
- Manipulated data structures such as queues, stacks and structures; **improving program efficiency by 30%**

Leadership Experience

Featured Speaker – International Tech Summit

Enactus & Aura

- Delivered a presentation on how effective networking accelerates career growth in software engineering
- Conducted a workshop exploring AI's growing influence on software engineering and future career paths

Technical Skills

Languages: Python, Java, C/C++, HTML5, CSS, JavaScript, Bash, Assembly, SQL

Developer Tools: VS Code, Git, Mercurial, VirtualBox, MATLAB, Eclipse, JIRA, Confluence, Postman, AWS

Technologies/Frameworks: Linux, Windows, macOS, Flask, React.js, Express.js, Node.js, MongoDB