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 2022/2023 school year
- Relevant coursework: Data Structures & Algorithms, O-O Programming, Real-Time Systems, Operating Systems

Technical Skills

Languages: Python, Java, C/C++, HTML5, CSS, JavaScript, Bash, Assembly, SQL
Developer Tools: VS Code, Microsoft Office, VirtualBox, MATLAB, Eclipse, JIRA, Confluence, Postman, AWS
Technologies/Frameworks: Linux, Windows, macOS, PHP, Splunk, Git, Mercurial, Flask, Jenkins, Docker

Experience

Nokia   **January 2025 – August 2025**
Software Development Intern   *Ottawa, Canada*
- Designed an object-oriented **Python** library using **Selenium** to interface with optical equipment under test, reducing manual testing time by **20%** for **80+ developers**
- Streamlined network element (NE) communication with a **RESTful API**, improving connection speeds by **40%**
- Reverse-engineered legacy **Perl** and **TCL** scripts from existing TestSet modules to ensure compatibility with modern hardware, reducing integration time and maintaining system stability by **30%**
- Delivered sprint demos to stakeholders, gathering feedback and adjusting product increments to align with evolving project requirements, enhancing client satisfaction by **40%**
- Collaborated with client engineers to diagnose and resolve API and hardware integration issues using **Postman** and **Python** debugging tools, reducing 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, explaining key concepts and offering guidance on programming assignments
- Provided one-on-one assistance to students struggling with **Python** programming
- Graded coding assignments and provided constructive feedback to students utilizing rubrics to ensure fair grading

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 by **30%**
- Integrated **GPT-3.5 Turbo** for personalized manager responses, **increasing user engagement by 12.5%**.
- Developed a **Flask** backend with **RESTful APIs**, **cutting response time and improving efficiency by 27%**
- Used **python-dotenv** to manage API keys and environment variables, **improving security by 85%**
- Implemented **asynchronous message handling** using **JavaScript's async/await** patterns, **reducing message delivery latency by 20%**

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 an intuitive **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%**