



AHMED ISMAIL

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Education

Carleton University

Sep. 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%**
- Developed data visualization and **AI/ML-driven insights** using **Splunk**, accomplishing a **30%** improvement in big data analysis efficiency across the R&D lifecycle
- Collaborated in an Agile environment using **Git**, **Linux**, and **VMware** for development and virtualization

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

Best Buy Canada

September 2023 – September 2024

Computing Solutions Advisor

Ottawa, Canada

- Excelling at providing personalized guidance, ensuring customers make informed purchasing decisions
- Averaged **\$100,000** in monthly sales, ensuring strong financial performance under strict deadlines

Projects

Inventory & Teleportation Game Odyssey | Java, BlueJ

March 2024

- Developed a 2D single-player game with diverse rooms and interactable items, resulting in an engaging user experience
- Utilized **inheritance** to establish hierarchical relationships between classes, **reducing code redundancy by 30%**
- Implemented **encapsulation** to safeguard internal implementation details, enhancing system robustness
- Applied **polymorphism** to allow objects of different classes to be treated interchangeably

32 Bit ARM Processor Assembly | Assembly, Logisim

March 2024

- Engineered a 32-bit ARM processor capable of interacting with I/O devices, FSM, and main memory
- Modified PC fetching instructions to save one clock cycle, allowing for a **45% increase in the efficiency of Load/Store instructions, 35% in ALU instructions and 15% in Control Flow instructions**

Text-based Social Media Platform | C, VSCode

November 2023

- Designed a platform capable of maintaining up to **thousands of users** utilizing **linked lists**
- 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%**

Automated Text-file Filtration System – Project Leader | Python, Wing

March 2023

- Developed an automated complex algorithm to filter through large datasets and output relevant data trends
- Utilized **dictionaries, loops, and error handling** to analyze text data from text files
- Implemented error handling mechanisms through **try and except statements; reducing runtime errors by 50%**
- Utilized the **Matplotlib** and **NumPy** libraries for generating graphical visualizations