

Mohamed Elsaban

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EDUCATION

Carleton University

Bachelor of Computer Science Co-op (Cybersecurity)

- President's Scholarship.

Ottawa, ON

Sep 2023 – Apr 2028

Relevant Coursework: Programming in Python, Programming in Java (OOP), Systems Programming, Web Applications, Cryptography, Symbolic Logic, Data Structures, Discrete Math, Software Engineering

EXPERIENCE

Risk Management Coordinator

Office of Risk Management, Carleton University

Oct 2024 – Present

Ottawa, ON

- Collaborated with **cybersecurity leadership** to interpret frameworks and streamline notification processes, fostering a stronger incident response strategy.
- **Developed cybersecurity incident notification guidelines** by conducting in-depth research and utilizing propositional logic to align official reports with Carleton University's unique environment.
- Proactively engaged with the Computer Security Division at the **National Institute of Standards and Technology (NIST)** to gather insights on frameworks, ensuring alignment with industry best practices and tailoring solutions to organizational needs.
- Leveraged **targeted investigations** using OSINT Framework to gather specific information, supporting decision-making and enhancing notification methods.
- **Handled sensitive data** with discretion and professionalism while supporting risk management initiatives.

Contract Web Developer

Second Wave Boutique

Apr 2024 – Jul 2024

Kincardine, ON

- **Designed and developed** a boutique-style fashion store website using HTML, CSS, and JavaScript, delivering a clean and visually appealing user experience tailored to the client's brand.
- Collaborated through **pair programming** to ensure seamless implementation of design and functionality.
- Optimized the website for **search engines (SEO)**, resulting in a **30%** increase in organic traffic and significantly enhancing the boutique's online presence.
- **Maintained and updated** the website post-launch, implementing client-requested changes to services and ensuring the site remained up-to-date and functional.

PROJECTS

Offline Post-Breach Password Cracking Simulation (Ethical)

Winter 2025

Self-Directed Cybersecurity Project

- Conducted an ethical offline password audit, simulating a realistic post-breach attacker scenario over two months.
- Acquired real-world bcrypt hashes using **DeHashed**, leveraging OSINT and publicly available breach data.
- Cracked bcrypt hashes via dictionary attacks using **Hashcat** and **Cbum**, optimizing wordlists for efficiency.
- Explored GPU acceleration, password entropy considerations, and practical limitations of password hashing.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, C/C++, HTML, CSS

Technologies: Node.js, Express.js, Flask, AWS Basics

Developer Tools: Git, Docker, MySQL, VS Code, IntelliJ

Cybersecurity & Intelligence Tools: OSINT Framework, theHarvester, Shodan, Hashcat, John the Ripper, Wireshark, Nmap, Burp Suite, Metasploit Framework, Kali Linux

EXTRACURRICULAR ACTIVITIES

See You On Orbit (Satellite Design Team)

Communications Security Engineer

Jan 2024 – Present

Ottawa, ON

- Collaborated with a 30-person multidisciplinary team in a Concurrent Design Facility (CDF).
- Prepared a CDF report on encryption strategies meeting government compliance.
- Researched RSA digital signatures for secure satellite-ground communication.
- Performed ethical LoRa signal interception simulations using SDR to identify vulnerabilities.