Mursaleen Sakoskar

613-869-3845 | mursaleensakoskar@gmail.com | LinkedIn | GitHub | Portfolio Website

Education

Carleton University *Expected May 2026*

B.Sc. Computer Science, Cybersecurity Specialization; Minor in Statistics

- **Secure Coding** (**Python**, **Go**, **C/C++**, **Bash**)
- **Penetration Testing** (**Kali Linux**, **Metasploit**, **Burp Suite**)
- **SIEM & Incident Response** (**Splunk Enterprise**, **ELK Stack**)
- **Cloud & Network Security** (**AWS**, **Azure**)

Certifications

- **AWS Cloud Practitioner Essentials**
- **Fortinet Certified Associate Cybersecurity**
- **IBM Cybersecurity Fundamentals**
- **Cisco Certified Ethical Hacker (CEH)**
- **Splunk: Intro to Splunk**
- **Forage Cybersecurity Simulations** (**Mastercard**, **AIG**, **CommBank**)
- **Google Cybersecurity Professional Certificate** (In Progress)
- **CompTIA Security+** (Expected September 2025)

Experience

MVerse Technology Solutions

App Developer (Co-op) May 2025 – Present

- Designed and developed a **Flutter/Firebase** mobile application with a **security-first** approach, implementing **OAuth2** authentication, encrypted local data storage, and onboarding **100+ active users**.
- Architected and integrated **REST** and **gRPC APIs** using **FastAPI** and **Node.js**, backed by **PostgreSQL** and **Redis**, enabling **sub-200ms real-time data synchronization** across services.
- Automated end-to-end **CI/CD pipelines** using **GitHub Actions** and **Jenkins**, adding unit tests with **pytest**, UI tests with **XCTest**, and integration tests in **Appium**.

MVerse Technology Solutions

Software Tester & Coordinator (Co-op) May 2024 – September 2024

- Collaborated with **U.S.-based company Om Research** as their **software partner**, diagnosing and resolving issues in **AI/ML learning models** and **data pipelines** to **streamline workflows** and **reduce downtime**.
- Conducted **regression testing**, **functional** and **non-functional testing** to validate **model stability, accuracy, bias, fairness**, and **robustness** across updates.
- Documented test results and maintained detailed **performance records** while participating in requirement reviews, providing actionable feedback on **testability** and **model improvements**.

Projects

Splunk Multi-Cloud Threat Analysis Platform

AWS, Terraform, Ansible, Splunk, Docker, Python Dec 2024 – June 2025

- Automated provisioning of a **multi-account AWS** lab environment using **Terraform** and **Ansible**, including **VPC networks**, **EC2 instances**, **CloudTrail logging**, and optional **Phantom SOAR integration**.
- Executed and replayed multiple **MITRE ATT&CK techniques** via **Python** and **Boto3**, achieving **85% detection accuracy** in **Splunk** with no false positives.
- Containerized the **HTTP Event Collector (HEC)** pipeline in **Docker** and deployed on **EKS**, publishing a live, interactive **Splunk dashboard** for **SOC analysts**.

Emergency Mesh Network System

C, Custom Protocols, Embedded Systems, Raspberry Pi Feb 2025 – April 2025

- Implemented a decentralized **mesh network** in **C** with **distance-vector routing**, **auto-discovery**, and **signal-quality hop-count metrics** for reliable **device-to-device messaging** without external infrastructure.
- Built a **hardware abstraction layer** for both simulation (**UDP sockets**) and Raspberry Pi (**WiringPi**, **SPI**, **UART**), featuring offline **map tiles**, **NMEA GPS integration**, and real-time **node location sharing**.
- Secured communications using a custom lightweight packet protocol with **MACs**, **XOR encryption**, and **adaptive RF channel scanning**, ensuring operation despite node failures and power constraints.