

Malcolm Odubote

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EDUCATION

Memorial University of Newfoundland

Bachelor of Science (Hons.), Computer Science (Cybersecurity)

- Faculty of Science Dean's List 2024-25, 2025-26

St. John's, NL

December 2027

CERTIFICATIONS

CompTIA Security+ , AWS Certified AI Practitioner, AWS Certified Cloud Practitioner

PROJECTS

Security Home lab: Detection Engineering & Adversary Simulation – Personal Project (June 2026 – Present)

Stack: *Proxmox VE, Kali Linux, Wazuh, Sysmon,*

- Designed a segmented security lab on a Proxmox hypervisor, with the attacker workstation kept on separate hardware from the monitored network.
- Designed network segmentation with VLANs and an inline IDS to isolate attacker, victim, and management traffic.
- Detection pipeline includes Sysmon and Windows Event Forwarding feeding a Wazuh SIEM, with detections mapped to MITRE ATT&CK.

Cloud Misconfiguration Scanner – Personal Project (May 2026 – Present)

Stack: *Python, FastAPI, PostgreSQL, Docker, SQLAlchemy*

- Building a Python REST API that scans AWS accounts for security misconfigurations and persists prioritized findings to PostgreSQL, with initial detection for public S3 buckets through boto3.

Kubernetes Security Research – Academic Group Project (Jan. 2026 – Apr. 2026)

- Investigated Kubernetes security using attack-tree methodology, the MITRE ATT&CK for Containers framework, and the CIS Kubernetes benchmark, demonstrating an RBAC-misconfiguration attack chain.

EXPERIENCE

Backend AI Engineer Intern | FlyRank AI | Chicago, Illinois (Remote)

Jun. 2026 – Aug. 2026

- Integrated a third-party LLM API into the backend, managing streaming responses, retries, and error states.
- Implemented token-based authentication with route-level authorisation to protect API endpoints.
- Engineered an LLM usage-metering service tracking per-request token consumption and computing spend for cost visibility.

Memorial University, School of Graduate Studies | St. John's, NL

Project Assistant

Sept. 2025 – Dec. 2025

- Contributed to website development and content updates, improving the school's online presence and accessibility.
- Produced graphic design and promotional materials, redrawing and standardizing visual assets with close attention to detail and consistency across the school's recruitment and event collateral.

Research Assistant

May 2025 – Aug. 2025

- Conducted target research to identify and evaluate prospective guest speakers and subject-matter experts for the School of Graduate Studies Entrepreneurship Training Program curriculum.

Home Support Worker | Caregivers NL | St. John's, NL

Aug. 2024 – Present

- Provide personalized in-home care and daily living assistance to clients, adapting support plans to individual needs.

TECHNICAL SKILLS

Languages: Python, Java, Typescript, Javascript, Dart, SQL

Frameworks and Libraries: FastAPI, SQLAlchemy, scikit-learn, NumPy, pandas, Flutter

Databases: PostgreSQL, Firestore

Cloud and Tools: AWS, Firebase, Git, Docker, Linux, Kubernetes, Splunk, Wireshark, Nmap