

Jaden Mardini

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Technical Skills:

Programming & Development: Object-Oriented Programming (C, C++, Python, Java,), SQL, Test-Driven Development (TDD), Unit Test Case Development, VPN & Firewalls, RDBMS, SQL.

Cybersecurity Tools & Frameworks: Wireshark, OSINT Techniques, Firewall & Network Security Configuration, CIA Triad, NIST Cybersecurity Framework (CSF), Cisco Packet Tracer.

Relevant Experience:

LinePal – Penetration Tester May 2025 - Aug 2025

- Conducted an authorized penetration load, volume tests on the **IOS App and API systems**.
- Built **automated Node.js** data pipelines to ingest, normalize, and package attachments, payloads, and API request/response data into structured, downstream-ready report datasets.
- Performed **authenticated and unauthenticated security testing** across frontend, API, Backend infrastructure, identifying, documenting and resolving **14 confirmed vulnerabilities (CVE-class)**.
- Delivered a detailed **vulnerability report** outlining risk severity, remediation steps, and coordinated disclosure.
- Ensured **full compliance** with safe-harbor, privacy, and data-minimization requirements as defined.

ClariNexus – Full Stack Developer Sep 2025 - Dec 2025

- Designed ETL/ELT pipelines using **Apache Airflow** integrating **PostgreSQL**, **Amazon Redshift**, and **BigQuery**, supporting data integrity and availability.
- Built **Django** and **FastAPI**-based data applications leveraging **Streamlit** to visualize insights derived from **30,000+ data point time-series** records per session.
- Implemented **data validation**, structured logging, and error tracking to investigate abnormal pipeline behavior, reducing data anomalies by over 70%.
- Developed **RESTAPI** ingestion pipelines with **Pandas** and **NumPy** and conducted load testing using **JMeter** to assess resilience and **improve performance by 60%**.

Project Experience:

Network Communication & Transport

- TCP and UDP-based client–server applications** using **Berkeley sockets**, implementing reliable and unreliable models.
- Designed and tested data transmission logic with **dynamic memory allocation**, **buffer management**, and error handling.
- Analyzed transport-layer behavior including **packet loss**, **retransmission**, **latency**, and **connection handling**.
- low-level foundational **cloud infrastructure**, **microservices communication**, and **service security**.
- Applied **secure coding practices** to mitigate common memory vulnerabilities.

(SOC) Homelab SIEM & Incident Response

- Designed and deployed a SOC-style monitoring environment using **Splunk SIEM**, **Suricata IDS**.
- Created alerts to detect **brute-force attacks**, network scanning, and anomalous authentication activity.
- Performed alert triage and **log analysis** to investigate potential security incidents.
- Documented findings and mapped attack techniques to the **MITRE ATT&CK framework**.
- Analyzed application **logs and system metrics** to identify **abnormal behavior** and validate operational alerts.

Conestoga College Cyber Security Association {CCSA} – President (Current)

- Founded and leading the college's 1st cybersecurity club.
- Leading a team of 40 students and collaborations with internal and external organizations, including **Google Developers Group (GDG)**, **Guelph University Cybersecurity Club**, to facilitate knowledge.
- Organized and delivered **hands-on cybersecurity workshops and labs (CTFs, phishing analysis, log investigation)**, introducing students to **red and blue-team workflows**.

Education:

Bachelor of Honours Degree Computer Science (Co-op program) - Conestoga College

Sep 2024 - Aug 2028

Certifications:

Google Cybersecurity Professional Certificate

Conestoga College Credible Foundations (Leadership)

TryHackMe – Introduction to Cyber Security (2025)