Jaden Mardini

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Technical Skills:

Programming & Development: Object-Oriented Programming (C, C#, C++, Python, Java, JavaScript, PHP), SQL, Assembly, Rust, Bash, PowerShell, HTML/CSS, Test-Driven Development (TDD), Unit Test Development, RDBMS, VPNs and Firewalls
Cybersecurity Tools: Wireshark, OSINT Techniques, Firewall & Network Security Configuration, CIA Triad, NIST Cybersecurity Framework (CSF), Cisco Packet Tracer, Arduino, ESP32, Raspberry Pi.

Relevant Experience:

LinePal – *Penetration Tester* May 2025 – Aug 2025

- **Conducted** an authorized load, volume tests on the system executing **20+ test scenarios**.
- **Built** automated **Node.js** data pipelines to ingest **1,000+ API requests/responses payloads, and attachments** into structured security assessment datasets.
- Authenticated and unauthenticated **security testing** across frontend, API, Backend infrastructure, identifying, documenting and resolving **14** confirmed **vulnerabilities (CWE-class)**.

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 **FAST API**-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 REST API** ingestion pipelines with **Pandas** and **NumPy** and conducted load testing using **JMeter** to assess resilience and **improve** performance **by 60%**.

Project Experience:

Conestoga College Cyber Security Association {CCSA} – *President* Jan 2025 – (Current)

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

(SOC) Homelab SIEM & Incident Response Mar 2025 – Jan 2026

- Deployed a SOC-style **monitoring** environment using **Splunk SIEM** and **Suricata IDS**, ingesting logs from **3+ sources** (**Windows, Linux, IDS**) for centralized analysis
- Analyzed application **logs and system metrics** to identify **abnormal behavior,** reducing false positives by **30%**.
- Wrote **10 detection rules and alerts** to detect **brute-force attacks**, network scanning, and anomalous activity.
- **Performed** alert triage on **50+** simulated security events, and **log analysis** to investigate security incidents.
- **Documented** findings and mapped **100%** of confirmed activity to the **MITRE ATT&CK framework**.

Network Communication & Transport May 2025 – Sep 2025

- Built **TCP/UDP client–server** applications using **Berkeley sockets**, validated across **15+ functional and edge-case tests**.
- Tested data transmission logic with **dynamic memory allocation**, **buffer management**, and **error handling**.
- **Analyzed** transport-layer behavior under simulated packet loss **(5–10%)**, latency, and retransmission scenarios.
- low-level foundational **cloud infrastructure, microservices communication**, and **service security.**
- Applied **secure coding practices** to mitigate common memory vulnerabilities**.**

Education:

Bachelor of Honours Degree Computer Science (Co-op program) - Conestoga College Sep 2024 – Aug 2028
Advanced Technology Diploma "Computer Engineering" - Conestoga College Sep 2020 – Apr 2023

Certifications:

Google Cybersecurity Professional Certificate
Conestoga College Credible Foundations (Leadership)
TryHackMe – Introduction to Cyber Security (2025)