

# Jaden Mardini

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## Technical Skills:

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**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:

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### 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:

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### 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 1<sup>st</sup> 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:

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

Sep 2024 - Aug 2028

## Certifications:

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Google Cybersecurity Professional Certificate

Conestoga College Credible Foundations (Leadership)

TryHackMe – Introduction to Cyber Security (2025)