Jaden Mardini

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Technical Skills:

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

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

Operating Systems & Platforms: Linux (Command Line & Shell Scripting), Windows, macOS, Azure DevOps, AWS.

Computer Architecture & Low-Level Programming: Assembly Language (ARM32).

Relevant Experience:

ClariNexus – *Full Stack Developer*   Sep 2025 - Dec 2025
- Designed and managed **ETL/ELT** data pipelines orchestrated with **Apache Airflow**, integrating data across **PostgreSQL**, **Amazon Redshift**, and **BigQuery** to support analytics and reporting use cases.
- Built **Django** and **FastAPI**-based data applications leveraging **Streamlit** to visualize insights derived from **30,000+ data point** time-series records per session
- Integrated backend services and implemented **data validation pipelines** to ensure accuracy and consistency across reducing data anomalies and rendering errors by **over 70%**
- Built data processing pipelines with **Pandas** and **NumPy** to clean, transform, and validate incoming datasets from multiple REST APIs
- Optimized **inter-service data flow** and load performance using **JMeter**, improving dashboard responsiveness and reducing load times by **60%**

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.

Project Experience:

GreenHouse Monitoring System (SCADA-style)
- Built a RESTful backend using FastAPI **(Python)** to ingest sensor data (temperature, humidity, soil moisture, light) and control actuators (pump, fan, lights, heater)
- Logged time-series sensor data to a **MySQL** database for historical analysis and trend monitoring represented as interactive dashboard using **Avalonia (C#)**
- Tested backend services using **Python unit tests**, **FastAPI TestClient**, and automated UI/API testing with **Selenium (C#)**

Conestoga College Cyber Security Association {CCSA} – *President*   Jan 2025 - Current
- **Founded and leading** the college's 1st cybersecurity club, fostering a community of students interested in cybersecurity, ethical hacking, and digital defence.
- **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.

Education:

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

Certifications:

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