

# Jaden Mardini

Waterloo, ON

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## Technical Skills:

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**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, Cloud Computing, Azure DevOps, GitHub, AWS.

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

## Relevant Experience:

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### 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:

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

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

## Certifications:

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Google Cybersecurity Professional Certificate

Conestoga College Credible Foundations (Leadership)

TryHackMe – Introduction to Cyber Security (2025)