# Jennifer Wang

780-999-4418 | jennif11@ualberta.ca | linkedin.com/in/jenniferwang2 | github.com/jenniferwang2

## EDUCATION & CERTIFICATIONS

**University of Alberta** — Edmonton, AB
*Bachelor of Science, **Honors** in Computer Science* — *Expected Apr. 2026*
- **Relevant Coursework:** Computational Cryptography (CMPUT 331), Cryptography and Digital Privacy (CMPUT 496, in progress), Operating Systems (CMPUT 379), Software Engineering (CMPUT 301), Web Applications and Architecture (CMPUT 404)

**Certifications:** ISC$^2$ Certified in Cybersecurity (CC, 2025); Google Cybersecurity Certificate (2025); CompTIA Security+ (self-study, exam not taken due to cost, 2025)

## EXPERIENCE

**Lead Teaching Assistant** — Sept. 2024 – Present
*University of Alberta* — *Edmonton, AB*
- Led weekly labs and delivered presentations for 300+ students in a challenging C programming course.
- Provided 1-on-1 mentorship through office hours (online and in person), guiding students through complex debugging and systems concepts.
- Directed and supported a team of TAs, ensuring consistency in lab delivery and grading.

**Machine Learning Research Intern (link)** — Sept. 2023 – Apr. 2024
*Alberta Machine Intelligence Institute (Amii)* — *Edmonton, AB*
- Created Python interfaces to automatically parse tiles from 2D video game levels and convert them into structured numerical data.
- Released one of the first open-source tools for transforming raw level images into ML-ready datasets, enabling researchers to train models directly on structured game environments.
- Maintained documentation and examples to make the dataset broadly accessible and reproducible for both academic and industry use.

## PROJECTS

**Cisco Packet Tracer Network Simulation** – Network design and configuration
- Designed and simulated a multi-subnet campus network in Cisco Packet Tracer with VLAN segmentation, inter-VLAN routing, and access control lists (ACLs).
- Created network diagrams and validation tests to demonstrate connectivity, redundancy, and troubleshooting processes.

**SIEM Stack Deployment** – Log collection and threat detection
- Deployed a security information and event management (SIEM) stack in a lab environment for centralized log ingestion, parsing, and visualization.
- Developed detection rules and dashboards to surface anomalous activity, and performed triage playbooks for incident analysis.

**Python Keylogger (Research Project)** – Malware behavior analysis
- Built a Python-based keylogger in an isolated environment to study malware persistence and improve defensive monitoring.
- Documented ethical considerations, detection heuristics, and mitigation strategies as part of a red-team/blue-team learning exercise.

**Honeypot Deployment** – Attacker telemetry collection
- Implemented a low-interaction honeypot to capture common scanning and exploitation attempts.
- Integrated honeypot logs with the SIEM lab environment to enrich detection and strengthen visibility of attack patterns.

## CLUBS & VOLUNTEERING

**CHADS (Cybersecurity, Hacking, and Digital Security Club)** — 2025 – Present
*University of Alberta* — *Edmonton, AB*
- Participated in club activities, security discussions, hands-on labs, and Capture the Flag (CTF) competitions focused on practical cybersecurity skills.