

SIMRANJIT SINGH

Software Engineering • AI Systems • Cybersecurity

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EDUCATION

University of Alberta - Bachelor of Science, Computing Science Edmonton, AB | Expected Apr 2029
GPA: 3.4/4.0 | CMPUT 174 (A-), CMPUT 175 (A+), STAT 252 (A) | CMPUT 201, CMPUT 204 (In Progress)
Centennial College - Computer Systems Technician, Networking Toronto, ON | 2020

TECHNICAL SKILLS

Languages: Python, TypeScript/JavaScript, SQL, Bash/Shell, HTML/CSS, JSON
Backend & Automation: Flask, REST APIs, API integration, OpenAI API, n8n, Airtable, workflow automation
Systems & DevOps: Linux/Unix, Windows Server, Docker, Git, GitHub, GitLab, DigitalOcean, Apache, TLS/SSL, CI/CD concepts
Security & Networking: Active Directory, DNS, DHCP, TCP/IP, Routing, VPNs, Firewalls, Scapy, packet analysis, debugging, regression testing
Certifications: CompTIA Security+, CompTIA A+, ISC2 Certified in Cybersecurity (CC), EC-Council CCT, TryHackMe Top 2%

EXPERIENCE

CyberFlow Sentinel - Founder & Software Developer Jan 2023 - Present

- Built an end-to-end cybersecurity automation platform that processes **50+ articles/day** using n8n, Docker, Airtable, OpenAI API, REST APIs, RSS/web ingestion, Pictory API, and social-platform APIs.
- Automated ingestion, extraction, filtering, categorization, deduplication, structured storage, LLM processing, rendering, and publishing, reducing manual processing by approximately **90%**.
- Deployed and managed Linux/Docker infrastructure on DigitalOcean with Apache reverse proxy and TLS/SSL; debugged API, authentication, data, and workflow failures using execution logs, API responses, testing, and structured debugging.
- Supported content reaching approximately **10,000 weekly viewers** while iterating on reliability, integrations, and workflow behavior.

A&W - Customer Service Supervisor Jul 2022 - Aug 2025
ISSA - Security Officer Jan 2021 - Jul 2022

PROJECTS & OPEN SOURCE

Agent Integrity - TypeScript | GitHub

- Built a public deterministic integrity/release-control system that binds AI outputs to structured claims, evidence, sources, decisions, and policy; independent verification returns **PASS / REVIEW / BLOCKED**.
- Implemented a release guard that re-checks the exact approved response before release, with protocol/core/SDK/CLI concepts and JSON interfaces.

OpenClaw - Open-Source Contributor

- Contributed a **merged** upstream TypeScript/Linux fix for gateway restart behavior caused by inherited cross-user D-Bus state; added regression coverage and validated **36 focused tests** (PR #111534).

ARC - Agent Review Control - Early-stage public prototype | GitHub

- Developing Contract + Evidence + Verdict controls that compare approved scope and required evidence against actual Git changes and command/test receipts to surface scope drift, missing evidence, and risky changes.

Packet Sniffer - Python, Scapy

- Built a command-line packet-analysis tool with BPF/protocol filtering, packet summaries, detailed inspection, and PCAP export.

VideoGen Pro - Python, Flask

- Built a Flask/Python application for media and video processing with workflow and background-processing concepts.