Neel Soni

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EDUCATION

University of Guelph   Expected Jan 2026
Master of Cybersecurity & Threat Intelligence
Guelph, ON

Fanshawe College   Dec 2024
Ontario Graduate Certificate in Information Security Management, GPA: 3.59
London, ON

Navrachana University   Jun 2021
Bachelor of Computer Science and Engineering
Vadodara, Gujarat, India

EXPERIENCE

- **Sales Associate**, Sai Krupa Jewellers, Vadodara, India   Jul 2021 – Mar 2024
  Delivered excellent customer service, maintained store organization, and handled POS transactions.

PROJECTS & RESEARCH

- **Exploit Development & Vulnerability Assessment**: Developed buffer overflow exploits for privilege escalation in C-based applications. Deployed OpenVAS, Nessus, and custom Nmap scripts for network scanning and fuzzing. Used Metasploit for remote/local exploitation and post-exploitation impact analysis.

- **Web Application Security** (SEED Labs): Performed practical attacks including SQL Injection, CSRF, and XSS in lab environments. Demonstrated session hijacking, data exfiltration, and proposed mitigations.

- **Cryptographic Libraries & Secure Communications**: Developed Python scripts to implement AES (ECB, CBC, GCM) and RSA encryption. Analyzed RSA certificates and performed digital signature workflows using SHA-256. Used OpenSSL to simulate secure key management and communication.

- **Graduate Research Project**: *Analyzing Penetration Testing Practices for Autonomous Vehicles*
  Dec 2024
  Conducted a qualitative meta-synthesis (2010–2023) of AV cybersecurity literature to identify vulnerabilities and recommend adaptive, AI-driven penetration testing frameworks.

PUBLICATIONS

- **OpCode-Based Malware Classification Using Machine Learning and Deep Learning Techniques**
  arXiv preprint arXiv:2504.13408, April 2025

VOLUNTEER LEADERSHIP

- **Chapter Leader, OWASP WWW Chapter – University of Guelph**
  Co-leading the university's OWASP chapter, organizing security workshops, CTFs, and promoting secure development practices on campus.

SKILLS

- **Cybersecurity:** SIEM (Splunk, Elastic), YARA, Metasploit, OpenVAS, Nessus, Nmap, Wireshark, Burp Suite, GHIDRA

- **Programming:** Python, Bash, JavaScript, Regex, Prompt Engineering (LLMs), Git, Linux, Windows, MacOS, Data Science (Keras, TensorFlow), Azure, AWS, GCP

- **Soft Skills:** Technical Writing, Problem Solving, Team Leadership, Public Speaking, Mentorship, Attention to Detail