

Neel Soni

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PROFESSIONAL SUMMARY

Cybersecurity master's candidate with hands-on experience in cryptographic analysis, threat intelligence, and penetration testing. Eager to leverage analytical and technical skills in innovative R&D roles within cybersecurity.

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 May 2021
Bachelor of Technology in Computer Science & 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

- **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.
- **APT Analysis and AI-based Detection for Cyber Threat Intelligence** (*Group Project*)
Researched 40 state-sponsored APT groups using OpenCTI; analyzed malicious payloads with GHIDRA and applied ML (SVM, KNN, Decision Tree) alongside a deep learning model for adversarial risk assessment.
- **Cryptographic Libraries & Secure Communications**
Implemented AES encryption/decryption in Python (ECB, CBC, GCM) via OpenSSL; analyzed RSA certificate properties and conducted digital signature workflows (SHA-256) to evaluate cryptographic vulnerabilities.
- **Biometrics and Machine Learning for Anomaly Detection in Mobile Interactions**
Developed an anomaly detection system using the Touchalytics dataset, performing extensive data cleaning, feature engineering, and evaluation of binary versus multi-class classification with scikit-learn.
- **Exploit Development & Vulnerability Assessment**
Created shell scripts to exploit buffer overflow vulnerabilities and configured vulnerability scanners (OpenVAS, Nessus) on Kali Linux; executed automated exploitation using Metasploit for network vulnerability validation.

SKILLS

Incident response, Network security, Threat intelligence, Identity management, Log analysis, Penetration testing, Cryptanalysis, Python, Shell Scripting, Problem-solving, Teamwork and collaboration, Attention to detail