Loksharan Saravanan

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EDUCATION

The City College of New York, City University of New York, The Grove School of Engineering
Master of Science in Cybersecurity *Expected May 2026*
Relevant Coursework: Pentesting and Ethical Hacking, Threat Intelligence, Digital Forensics and Incident Response

Rajalakshmi Engineering College, Chennai, India
Bachelor of Engineering in Computer Science and Engineering *May 2021*
Relevant Coursework: Computer Networks, Data Structures and Algorithms, Cryptography and Network Security

TECHNICAL SKILLS

Programming & Frameworks: C, C++, Python, SQL, Flask, React
Tools: Splunk, Velociraptor, Snort, Wireshark
Operating Systems & Virtualization: Windows, Ubuntu, Kali Linux, pfSense, VirtualBox, VMware
Cybersecurity: Threat Hunting, Log Analysis, Endpoint Detection & Response, Incident Response, Malware Analysis
Certifications: CompTIA Security+ , CEH In progress

PROFESSIONAL EXPERIENCE

Infosys Limited, Power Programmer | Chennai, India *Aug 2021 – Aug 2022*
● Developed and maintained backend systems using Python and SQL, improving data handling and workflow automation.
● Collaborated with cross-functional teams in an Agile environment to deliver secure, full-stack enterprise applications.
● Wrote and optimized SQL queries for data extraction, transformation, and analysis.
● Applied secure coding practices in production-level systems

VIRTUAL INTERNSHIPS / EXPERIENCE

● **NCyTE – Cybersecurity Career Challenge:** Designed, configured, and secured a small business network; conducted vulnerability assessments and implemented defensive measures for a simulated penetration test.
● **Deloitte – Cyber Job Simulation:** Completed hands-on cybersecurity tasks, including threat analysis, incident response, and workflow problem-solving.

PROJECTS

Threat Intelligence Hub
● Built a centralized threat intelligence platform to aggregate, analyze, and visualize IOCs (IPs, domains, hashes).
● Integrated feeds with **MITRE ATT&CK mapping** and dashboards for SOC use cases.
● Demo: https://TIHub.onrender.com | Code: GitHub
Vulnerability Scanner
● Developed a modular Python-based scanner with network scanning, CVE lookups, and multi-threading support.
● Designed extensible plugins for future integration with GUI and reporting features | Code: GitHub
Encrypted Chat Application
● Built GUI chat app using C, GTK, OpenSSL with AES encryption.
● Ensured secure real-time communication using Diffie-Hellman key exchange protocol | Code: GitHub

CYBERSECURITY HOME LAB

● Performed penetration testing, Red Team simulations, and endpoint threat hunts.
● Simulated attacks, collected and analyzed logs with **Wazuh** and **Splunk**, creating dashboards for threat detection.
● Conducted network/software vulnerability scans (**Nessus**) and malware analysis using static and dynamic techniques.
● Performed **forensic analysis** on memory dumps and disk images to detect malicious activity and reconstruct attack paths.
● Configured firewalls/IDS (**pfSense, Snort**) and implemented web protections (SQLi/XSS via ModSecurity).
● **All lab setups, attack simulations, and documentation: github.com/loksharan-soc**

PUBLICATIONS

● Gnanavel, S., et al., & **Loksharan, S**. (2022). **The Smart IoT-Based Automated Irrigation System Using Arduino Uno and Soil Moisture Sensor**. In 2022 **4th International Conference on Smart Systems and Inventive Technology (ICSSIT) (pp. 188–191). IEEE.** https://doi.org/10.1109/ICSSIT53264.2022.9716368.