

Loksharan Saravanan

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LinkedIn: [linkedin.com/in/loksharan](https://www.linkedin.com/in/loksharan) | GitHub: github.com/loksharan-soc | Portfolio: loksharan-soc.github.io

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: C, C++, Python, SQL

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 Artifact Analysis

Frameworks & Web: Flask

Certifications: Virtual Cybersecurity Career Challenge 2025, CompTIA Security+ In progress, 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

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: TIHub.onrender.com | Code: [GitHub](https://github.com)

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](https://github.com)

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](https://github.com)

CYBERSECURITY HOME LAB

- **Wazuh & Splunk SIEM** – Simulated brute-force and malware attacks, detected logs via dashboards.
- **Threat Hunting** – Investigated suspicious files and privilege escalations through endpoint forensic analysis.
- **Vulnerability Assessment** – Scanned systems with Nessus, analyzed vulnerabilities, generated detailed security reports.
- **Network Security** – Configured pfSense firewall and Snort IDS, monitored malicious network traffic.
- **Web Application Security** – Implemented ModSecurity WAF, blocked SQL injection and cross-site scripting attempts.
- **Digital Forensics** – Examined memory dumps and disk images, identified malware and attack artifacts.
- All lab setups, attack simulations, and documentation : github.com/loksharan-soc

PUBLICATIONS

- Gnanavel, S., Sreekrishna, M., DuraiMurugan, N., Jaeyalakshmi, M., & 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>.