

SHANGRUTHAN

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Education

Shiv Nadar University, Chennai

2022 - 2026

B.Tech in Computer Science with Specialization in Cyber Security

8.02 CGPA (as of four semesters)

Work Experience

N-able Private Limited

Jun 2024 – July 2024

Information Security Analyst

Intern

- **Threat Detection Using Elastic Search**

- * Developed automation scripts for Elastic Search to detect and mitigate SQL injection and unauthorized file access attempts, improving security and reducing detection time by 30%.

- **Sigma Rules Implementation**

- * Employed Sigma rules for threat detection in Imperva Cloud and Sentinel, quarantining unauthorized downloads and verifying file integrity to balance security with functionality.

- **Threat Hunting with Sentinel One**

- * Managed a scenario with 100+ agents on the Sentinel One dashboard where agents were online but not sending telemetry data for 20 days. Investigated and resolved the issue to restore continuous monitoring.

Projects

Chat Crypt Encrypted client-server messaging platform.

[Source Code](#)

- **Client-Server Architecture:** Developed a messaging platform with a central server managing client connections for real-time communication.
- **Python Sockets:** Implemented server using Python's socket module to handle client connections and message routing.

DDoS Attack Detection System using Machine Learning

[Source Code](#)

- **K-Means Clustering:** Applied K-means to classify network traffic into normal and potentially malicious categories.
- **Silhouette Score Evaluation:** Assessed clustering effectiveness using silhouette score to detect anomalous network activity.

HashGuard Password Manager

[Source Code](#)

- **Command-Line Interface (CLI):** User-friendly CLI tool with master key authentication for managing passwords and profiles.
- **SQLite3 Database:** Utilizes a foreign key to connect the user database with the password database, allowing access only to user database through the CLI, ensuring the passwords database remain securely stored and inaccessible to users

Technical Skills

Languages: Python, Java, C, C++

Frontend: HTML, CSS

Databases: MySQL

Developer Tools: VS Code, GitHub

Cybersecurity Tools: Wireshark, Burp Suite, Metasploit, hping3, macof, Imperva Cloud, FortiSIEM, SentinelOne, Palo Alto Firewall, Fortinet, FortiGate, and Elasticsearch

Certifications

- **ISC²** Certified in cybersecurity (CC) [Accreditation](#)
- Introduction to Cybersecurity by **CISCO**.
- **EHPT+** Ethical hacking and penetration testing by OSCALY academy
- Exploit Development with Assembly and C, Nmap Network Scanning and Reconnaissance, Reverse Engineering and Malware Analysis on **Udemy**.

Event Participation and Awards

- Third place in DENHACKS Envithon conducted as part of NSS special camp: [Certificates](#)
 - Led a team effort to enhance accessibility by developing the project's front page in three local languages.
 - Designed clear and efficient backend code to process uploaded images and predict diseases, displaying results back to the user.
- Participated in several Capture The Flag (CTF) competitions, including:
 - third place in EditaCTF 2.0, an offline (CTF) organized by SNUC Coding Club.
 - Ranked under top 10 teams in the 24-hour Password CTF conducted by the Linux Club of VIT Chennai.
 - Ranked under top 50 in the Pragyan CTF held at NIT Trichy, a 48-hour online event.