SHANGRUTHAN

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Education

Shiv Nadar University, Chennai	**2022 - 2026**
B.Tech in Computer Science	*8.02 CGPA (as of four semesters)*

Work Experience

N-able Private Limited	**Jun 2024 – July 2024**
Information Security Analyst	***Intern***

- **Threat Hunting with Sentinel One**
  - ∗ Managed a complex scenario with 100+ agents on the Sentinel One dashboard, where agents were online but had not sent telemetry data for 20 days. Investigated and resolved the communication gap, ensuring system integrity and continuous monitoring.
- **Threat Detection Using Elastic Search**
  - ∗ Utilized Elastic Search to identify and mitigate SQL injection and unauthorized file access attempts, blacklisting malicious IPs and alerting clients about potential threats, resulting in improved overall network security.
  - ∗ Developed automation scripts that streamlined the detection process, reducing detection time by approximately 30%.
- **Sigma Rules Implementation**
  - ∗ Employed Sigma rules for threat detection and management within the Imperva Cloud and Sentinel platform, successfully quarantining devices that downloaded unauthorized packages or applications.
  - ∗ Verified file integrity and wrote exceptions for verified software, balancing security and functionality for the clients

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.
- **XOR Encryption:** Secured messages with XOR encryption, ensuring data security during transmission.

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.

Technical Skills

Languages: Python, Java, C, C++
Frontend: HTML, CSS
Databases: MySQL
Developer Tools: VS Code, GitHub

Certifications

- C Programming and Assembly language NPTEL.　　**Accreditation**
- Embedded systems and ARM architecture NPTEL
- Attended Workshops on IOT And AR/VR (part of IEEE computer society)

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:
  - Ranked under top 50 teams in the 24-hour Password CTF conducted by the Linux Club of VIT Chennai.
  - Ranked under top 250 in the Pragyan CTF held at NIT Trichy, a 48-hour online event.