Sarvesh Aadhithya.D

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SUMMARY

Aspiring to establish a dynamic career in the field of cybersecurity. I am eager to seize a challenging mission of cybersecurity excellence. My passion for cybersecurity is driven by a deep commitment to exploring low-level systems, including malware development, assembly language, kernel exploitation, and writing C scripts. I am enthusiastic about applying my expertise to enhance security in an ever-evolving digital landscape by delving into the intricacies of system internals and developing robhust solutions.

SKILLS

- **Languages:** Python, C, Assembly, Html, Css, Javascript, Bash.
- **Frameworks:** Metasploit, Emperor C2 Server, ExpressJs, Flask.
- **Tools:** BurpSuit, IdaPro, GDB, ZAPproxy, Github, Linux Terminal, Nessus, SqlMap, Pwntools, Wireshark.
- **Databases:** MongoDB, SQL.
- **Practical Skills:** Binary Exploitation, Reverse Engineering, WebApp Pentesting, Full-Stack Development.

EDUCATION

2021 - Present	**B.E IN COMPUTER SCIENCE** EASWARI ENGINEERING COLLEGE, Chennai. *CGPA: 8.2/10*
2021	**SENIOR SCHOOL CERTIFICATION EXAM** Chinmaya Vidyalaya higher Secondary School, Chennai. 560/600 (93%)
2019	**SECONDARY SCHOOL CERTIFICATION EXAM (CBSE)** Sairam Vidyalaya Higher Secondary School, Chennai. 460/500 (92%)

PROJECTS

10/2024- 1/2025   **LINSEC|** *https://github.com/SarveshAadhithya/linsec*

- Created a Linux Security Module for real-time analysis of binaries using both static and dynamic sandboxing techniques.
- Leveraged deep learning to detect anomalies and identify potential threats in binaries.
- Designed an explainable AI dashboard to provide clear insights into why a binary was flagged as malicious.
- Implemented dynamic sandboxing to securely test and analyze newly installed binaries.

01/2024 - 03/2024   **TRIPLE-LOCK**

- Developed a Python application with a Tkinter-based GUI for user-friendly interaction.
- Implemented TDES encryption to securely encrypt and decrypt files.
- Enabled secure file transmission by integrating robust encryption techniques.

04/2023   **ARP-SPOOF-DETECTOR |** *https://github.com/SarveshAadhithya/ARP-Guard*

- Developed an ARP spoofing detector in Python using the Scapy library for raw packet inspection.
- Monitored the ARP table and analyzed the frequency of ARP and ICMP packets to identify attacks.
- Implemented a prevention mechanism to block traffic from the attacker's IP address.
- Enhanced network security by detecting and mitigating ARP spoofing and related threats.

Internships

02/2025- Present	**CyberSapiens United LLP**

- Assisting in a Red Team project, conducting simulated attacks to assess and improve the security posture of systems and networks of clients through proactive offensive security testing.
- Performing Vulnerability Assessment and Penetration Testing (VAPT), identifying and exploiting security vulnerabilities in web applications to enhance their protection against cyber threats.

01/2024-02/2024	**Exposys Datalabs**

- Joined as an intern and gained hands-on experience in developing secure applications. Focusedon implementing the Triple DES (TDES) encryption methodology.
- Successfully developed a secureimage transfer application utilizing TDES encryption, ensuring robust data protection and securecommunication.

ADDITIONAL COURSES

05/2024	**GOOGLE CYBERSECURITY PROFESSIONAL CERTIFICATE	COURSERA**

- An intermediate cybersecurity course provided by Google

10/2023	**PRIVACY AND SECURITY	NPTEL**

- An AICTE-approved 12 week program. I gained knowledge of several key Java

02/2023	**NETWORK+	COMPTIA**

- Network+ certifies essential networking skills in setup, management, and troubleshooting.

05/2022	**PYTHON BASIC CERTIFICATION	HACKERRANK**

- It validates core Python coding and problem-solving skills.

CONFERENCES

03/2024	**DEFCON** - 2nd conference conducted by DEFCON chennai DCG9144.

Attended the conference for networking with cyber security experts.

Achievements | https://github.com/SarveshAadhithya/CTF-certs

10/2024	**IRONCTF-** Secured 22/1033
10/2024	**GreatAppSec Hackathon -** Qualified for Final round
08/2024	**H7CTF -** Secured 2nd Position
09/2024	**PatriotCTF -** Secured 72/1361

Research Work

Present	**Linux Security Framework**

- Hybrid Malware Detection – Combines static analysis (YARA rules, VirusTotal, Gemini API) and dynamic analysis (syscall anomaly detection, network monitoring, Sysdig process analysis) in a sandbox.
- Real-Time Threat Intelligence – Detects and classifies malicious binaries by monitoring system calls and network activity for anomalies.
- Express.js Frontend – Delivers transparent security insights through an interactive dashboard, explaining why a binary is flagged as malicious.

VOLUNTEERING

10/2023- 10/2024	**CYBER SECURITY LEAD IN GOOGLE DEVELOPER STUDENTS CLUB (GDSC)**

As GDSC Cybersecurity Lead, I organized events like "Google Solution Challenge 24" and "Summit Up," fostering technical growth and collaboration. I mentored peers in cybersecurity, enhanced community engagement, and promoted innovation to equip students with real-world skills.