Muhil

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Summary

As a dedicated Cybersecurity student, I am passionate about building a career in penetration testing. My academic background, along with CompTIA Security+ ,Network+ and AWS CLF-C02 certifications, has provided me with a strong foundation in cybersecurity principles. Being ranked in the top 1% on the TryHackMe platform **(uid: lasthacker)** highlights my practical skills and commitment to continuous learning. Motivated by complex security challenges, I strive to develop innovative solutions and enhance my expertise. I am seeking opportunities that offer hands-on experience and mentorship to help me excel as a proficient penetration tester.

Practical Projects

- **Home Lab SIEM Implementation** – Set up a **Wazuh-based SIEM system** integrated with a Linux and Windows home lab. Configured log forwarding, built detection rules, and conducted real-time threat correlation and alerting.
- **SOC Operations with TryHackMe** – Analyzed phishing attacks, suspicious logs, and threat actor behavior using a simulated SOC environment. Practiced **incident response**, **alert triaging**, and **threat hunting**
- **Malware Analysis & Reverse Engineering** – Performed static and dynamic analysis on real malware samples (e.g., njRAT, LokiBot), extracting **IOCs**, detecting **persistence mechanisms**, and reversing obfuscation techniques.
- **Bypassing University Wi-Fi Restrictions with V2Ray** – Successfully bypassed university network restrictions on unresolved IP addresses using V2Ray and OpenWRT. Applied networking and traffic tunneling techniques to circumvent censorship and maintain secure access.

Publications

IEEE Conference Paper
"Evaluating and Exploiting Security Vulnerabilities in Large Language Models (LLMs) for Offensive Penetration Testing"
To be presented at IEEE ICCPCT 2025**, August 2025**

Skills & tools

Security Tools: Wireshark, Burp Suite, Metasploit, Nessus, Nmap, YARA, Wazuh
Programming Languages: Python, Bash, C++
Operating Systems: Kali Linux, Ubuntu, Windows
Core Areas: Threat Hunting, SOC Analysis, Reverse Engineering, Secure Networking

Certifications

- CompTIA Security+
- CompTIA Network+
- AWS Certified Cloud Practitioner (CLF-C02)
- NPTEL (Programming in Java, Computer Architecture)

Education

B.Tech in Computer Science with Specialization in Cybersecurity   **CGPA: 9.59/10**
SRM Institute of Science and Technology, Chennai
September 2022 – Present

12th (CBSE)   **Percentage: 78.4%**
Shrishti Vidyashram, Vellore
June 2018 – June 2019

10th (CBSE)   **GPA: 9.8/10**
Shrishti Vidyashram, Vellore
June 2016 – June 2017

Experience

Singapore Armed Forces   **Mar 2020 - Jan 2022**
Signaller · Communication Specialist   *Singapore*

- Operated and maintained secure communication systems for the 35th Combat Engineers, ensuring real-time, encrypted transmissions under mission-critical scenarios.
- Troubleshot system and protocol failures, enhancing operational uptime and showcasing readiness for high-pressure security environments.
- Independently managed radio frequency equipment and encrypted protocols, building a strong foundation in communication and cybersecurity practices.