

MANSI SINGH

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EDUCATION

Bachelor of Technology in CSE (Cyber Security and Digital Forensics)
Vellore Institute of Technology

2022-26
CGPA: 8.99

WORK EXPERIENCE

Cyber Security Intern <i>Elevate Labs, Online</i>	June 2025-July 2025
<ul style="list-style-type: none">Performed security scans (Nmap, OpenVAS) and mitigated vulnerabilities by patching systems and configuring firewalls.Implemented security measures including firewall rules, traffic analysis (Wireshark), and browser audits to harden systems.	

Cyber Security Intern <i>Codec Technologies, Online</i>	May 2025-June 2025
<ul style="list-style-type: none">Actively participated in ethical hacking simulations, gaining hands-on experience in identifying vulnerabilities and understanding the methodologies behind common cyber threats.In-depth exploration of web application security, specifically focusing on the OWASP Top 10 risks and their mitigation strategies.Practiced cloud security and encryption techniques, while participating in incident response drills.	

PERSONAL PROJECTS

Pictoshield

- A secure **graphical password authentication system** to replace traditional text-based passwords.
- Implemented SHA-256 hashing with salted hashing (bcrypt) for stored credentials.
- Integrated rate-limiting and CAPTCHA to detect automated attacks.

SecureScan

- A CLI tool for performing **real-time website security** and vulnerability analysis.
- Engineered modules to audit SSL/TLS configurations, parse advanced HTTP security headers, and detect insecure cookies.
- Implemented phishing pattern recognition and batch scanning capabilities to automate security reporting for multiple targets.

TECHNICAL SKILLS

- Security Tools:** Kali Linux, Splunk, Wireshark, BurpSuite, Nmap, OWASP ZAP, Openstego, Autopsy, Recuva, Maltego, Ghidra, FTK Imager, Sqlmap, Johntheripper, Hydra, Windows powershell
- Technical Skills:** Google Sheets, MS Excel, Power BI
- Security Skills:** OWASP Top 10, Vulnerability Assessment, SOC, Scripting, Report writing, Cyber Kill chain, OSINT, Stenography, Ethical Hacking, Active Directory, OS Forensics, Web Development, Privilege Escalation
- Languages:** Python, Java, Bash, MySql, JavaScript
- Frameworks:** MITRE ATT&CK, NIST, Metasploit, Volatility, OSINT
- Cloud/Databases:** AWS (basics)
- Relevant Coursework:** Networking, Database Management System, SDLC/SSDLC, Operating Systems

CERTIFICATIONS

- Google, Coursera:** Earned a certificate of Bits and Bytes of Computer Networking.
- Meta, Coursera:** Earned a certificate of Data Analyst.
- Postman:** Earned a certificate of API Fundamentals Student Expert.
- Oracle:** Earned a certificate of Java Foundation Associate.
- TryHackMe:** Earned certificates of Cyber Security Fundamentals.

ACHIEVEMENTS & EXTRA-CURRICULAR

- Top 1% on TryHackMe (THM):** Ranked 5k out of lakhs globally, demonstrating exceptional skills.
- 100 days of Code (2023):** Engaged in 100 Days of Code by discussing DSA concepts and optimization techniques, enhancing problem-solving discussions within the coding community.
- Extra-Curricular:** Content team lead at iOS Club and Non-Tech domain lead at Cyber Warriors Club.