

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
Elevate Labs, Online

June 2025-July 2025

- 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
Codec Technologies, Online

May 2025-June 2025

- 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.