Mansi Singh

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 GitHub Profile
 LinkedIn Profile

WORK EXPERIENCE

•**Cyber Security Intern** *May 2025 - June 2025*

Codec Technologies Online

– 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

•**Cyber Security Intern** *June 2025 - July 2025*

Elevate Labs Online

– 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

TECHNICAL SKILLS AND INTERESTS

Security Tools: Kali Linux, Splunk, Wireshark, BurpSuite, OWASP ZAP, Openstego, Autopsy, Recuva, Maltego, Ghidra, FTK Imager, Sqlmap, Johntheripper, Hydra, Hashcat, Hexeditor, Aircrack-ng, Searchsploit, Network miner, Java-jdx, Termux,Windows powershell, Sysinternal tools

Security Skills: OWASP Top 10, Vulnerability Assessment, SOC, Networking, Scripting, Report writing, Cyber Kill chain, OSINT, Stenography, Ethical Hacking, Active Directory, Bug hunting, OS Forensics, Web Development, Privilege Escalation

Languages: Python, Java, Bash, MySql, JavaScript

IDEs : NeoVim, Nano, VsCode, Sublime, Notepad++, Android Studio

Web Dev Tools: Reactjs, VScode, Git, Github

Frameworks: MITRE and ATT@CK, NIST, Metasploit, Volatility, OSINT

Cloud/Databases: MongoDb, AWS, Google Console

LLM Models: Claude-3.5/3.7-sonnet, DeepSeek-V3/R1, ChatGPT-3.5/4/o1, Gemini-1.5/2.0

Relevent Coursework: Networking, Database Management System, Software Engineering, SDLC/SSDLC, Operating Systems, Data Science, Cyber Laws, Active Directory,

Areas of Interest: Web pentesting, Steganography, Digital Forensics, Car Hacking, Android Hacking, Networking pentesting, OS forensics, Data Recovery

Soft Skills: Problem Solving, Self-learning, Presentation, Adaptability

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.
– **Visit Here -** Pictoshield

•**Aerogriff**

A web-based dashboard to monitor real-time drone-captured data

– Secured drone-to-server communication using MQTT with TLS/SSL encryption and certificate pinning to prevent MITM attacks.
– Deployed on AWS/GCP with load balancing (ALB) and auto-scaling groups, ensuring 99.9farming seasons.

EDUCATION

–**Bachelor of Technology in CSE (Cyber Security and Digital Forensics)** *2022-26*

Vellore Institute of Technology, Bhopal CGPA: 8.96

CERTIFICATION

–**IIT Kharagpur, NPTEL:** Earned a certificate of Cyber Physical Systems.

–**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

- **100 days of Code:** Engaged in 100 Days of Code by discussing DSA concepts and optimization techniques, enhancing problem-solving discussions within the coding community.   *2023*
- **Top 6% on TryHackMe (THM):** Ranked 87394 out of lakhs on TryHackMe, demonstrating exceptional cybersecurity skills and achieving the top 6% of participants.   *2025*
- **Extra-Curricular:** Content team lead at iOS Club and Non-Tech domain lead at Cyber Warriors Club.   *2024*

Personal Interests

Playing chess and badminton, Listening songs, Stand-up Comedy

Languages

English, Hindi