Ritvik Singh

+91 9779720974 | singhritvik1411@gmail.com | linkedin | github | portfolio

Objective

Passionate Cybersecurity enthusiast skilled in VAPT, SIEM, and DLP implementation, with hands-on experience in penetration testing, security auditing, and enforcing cybersecurity policies to strengthen systems and protect data.

Technical Skills

Penetration Testing & Security Tools: Burp Suite, Wireshark, Metasploit, Nmap, Nessus, Nikto, Hydra, John the Ripper, Gobuster

SIEM, Monitoring & DLP: Wazuh, ThreatSpike, Elasticsearch, Data Loss Prevention (DLP) configuration, Log Analysis, Incident Response

Security Concepts & Frameworks: OWASP Top 10, Web/API Security, Network Security, Cryptography, Authentication, ISO 27001, Office Security Auditing

Programming & Scripting: Python, C++, SQL, Bash; automation using Scapy, Requests, BeautifulSoup

Cloud & Infrastructure Security: AWS, GCP, Azure fundamentals, Secure API development, Access Control, Encryption management

Experience

Cyber Security Analyst Mar 2025 – Present
Cybrotech Digiventure Pvt. Ltd., New Delhi *cybrotech.us*

- Conducted web and network penetration testing aligned with OWASP Top 10; identified injection flaws, misconfigurations, and authentication weaknesses.
- Executed vulnerability assessments using Nmap and Nessus; provided CVE-mapped findings and remediation documentation.
- Deployed and tuned **Data Loss Prevention (DLP)** policies to prevent unauthorized data transfer and monitor endpoint data leakage.
- Performed **Office Security Audits** including endpoint hardening, Wi-Fi segmentation, and employee awareness reviews for compliance readiness.
- Used SIEM tools (Wazuh, ThreatSpike) for real-time log correlation, incident detection, and response triage.
- Collaborated with backend teams to secure APIs and databases, implementing authentication, input validation, and encryption mechanisms.
- Authored cybersecurity policies and structured vulnerability reports aligned with ISO/IEC 27001:2022 standards.

Projects / Writeups

Network Packet Sniffer | *Python, Scapy, Wireshark* GitHub

- Developed a live packet sniffer for protocol inspection (TCP/UDP/ICMP) with structured logging for network forensics.

TryHackMe Writeups Collection | *CTFs, Pentesting, Web Exploitation* GitHub

- Published 12+ walkthroughs covering privilege escalation, enumeration, brute-force, and OSINT exercises.

GameByMood | *Python, FastAPI, JS, CSS* Live Site

- Developed mood-based game suggestion web app; implemented secure API backend and session validation.

Certifications

Certified Ethical Hacker (CEH) – EC-Council (2024)
Google Cybersecurity Specialization – Coursera (2024)
Introduction to Cybersecurity – Cisco (2024)

Education

Bennett University Greater Noida, Uttar Pradesh
B.Tech – Computer Science and Engineering (4th Year) *2022–2026*

- SGPA (6th Sem): 9.37 / 10
- **Relevant Coursework:** Cybersecurity, Network Security, Penetration Testing & Ethical Hacking, Cryptography, Incident Response