ARPIT SIVAKUMAR

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WORK EXPERIENCE

Nuclear Power Corporation of India Ltd. (NPCIL) Sep 2024 – Dec 2024
Cyber Security Intern Surat, Gujarat

- Performed vulnerability assessments on 250+ Windows endpoints using OpenVAS, uncovering critical BIOS and system policy misconfigurations and communicating prioritized remediation steps across teams.
- Hardened BIOS policies to enforce USB lockdowns on 130+ systems, reducing external device misuse by 67%.
- Facilitated phishing and password hygiene training for 100+ employees, boosting security awareness scores by 38%.
- Delivered exploit-severity vulnerability reports and coordinated Seqrite patching with IT teams, achieving 72-hour remediation and clear stakeholder communication.

CERTIFICATIONS & SKILLS

- **Certifications:** Certified Network Security Practitioner (CNSP); Certified Ethical Hacker (in progress); Cisco Certified Network Associate (in progress).
- **Technologies:** C++, Python, Bash, PowerShell, Burp Suite, Nmap, Wireshark, Metasploit, Splunk, Git, Snort

PROJECTS

Security Information and Event Management Solution

- Architected a centralized Splunk SIEM for 65+ Linux systems, integrating firewall (UFW), authentication, and system logs to enable real-time monitoring, threat correlation, and incident response.
- Designed custom dashboards and correlation rules to detect suspicious logins, brute-force attempts, and privilege escalation activities, improving detection accuracy by 35% and reducing false positives.
- Optimized Splunk alert thresholding, reducing false positives by 43% and improving incident response by 32%.

Recon Crawler

- Scripted automated subdomain reconnaissance pipeline by using Subfinder, Shodan API, and Nmap, identifying 100+ previously unknown assets and reducing manual, repetitive enumeration tasks by 57%.
- Automated enrichment of 100+ assets with WHOIS metadata and Wappalyzer fingerprints, streamlining reconnaissance workflows and boosting bug bounty targeting accuracy.
- Designed a scalable recon system with task queues and structured output, improving workflow automation by 36%.

UPI Advisor

- Developed a full-stack web app to crowdsource reports on suspicious UPI IDs. Engineered a comprehensive RESTful API for reporting, retrieving, and commenting on suspicious UPI IDs.
- Implemented Redis caching, improving API response times by 60% and reducing database load by 40%.

CO-CURRICULAR

- Ranked Global Top 200 at HackTheBox International CTF (Apr 2024) among 10,000+ participants.
- Organised 3+ CTFs, delivered Linux workshops, mentored 50+ students, and engaged with Linux communities.
- Conducted 3 OWASP Top 10 workshops for 200+ attendees, simplifying concepts and showcasing AI-driven security.

EDUCATION

- **Integrated Masters (BTech + MTech) of Technology in Computer Science** (2021 - 2026)
  and Engineering with Specialization in CyberSecurity
  Cumulative GPA - **8.5**, VIT Bhopal University, Bhopal, M.P.