Harshita Mittal

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Professional Summary

Cyber Security Analyst with experience in cloud security, application security (VAPT), vulnerability management, and security monitoring across enterprise environments. Skilled in identifying security gaps, leading penetration testing engagements, and supporting remediation and compliance/risk monitoring using Burp Suite, Wiz, Tines, and Python. Familiar with PCI DSS and ISO 27001 principles.

Education

B.Tech in Computer Science (Cyber Security & Forensics) 2019 – 2023
University of Petroleum and Energy Studies

CGPA: 8.4/10 — CBSE XII: 76% — CBSE X: 85%

Technical Skills

Security: Application Security (VAPT), Cloud Security, Vulnerability Management, CSPM, Security Monitoring, Incident Response, Risk & Compliance, PCI DSS

Cloud Platforms: AWS (EC2, EKS, Route 53, CloudWatch, Load Balancer, IAM, Transit Gateway)

Security Tools: Burp Suite Pro, OWASP ZAP, Nmap, Nuclei, ffuf, sqlmap, Wiz, Prowler, Trivy, kube-bench, kube-hunter, Kubescape, Wazuh (SIEM/XDR), Tines, Zscaler, ServiceNow, Jira

Languages/Scripting: Python, SQL, C++, Rego, OVAL

Frameworks/Standards: PCI DSS v4.0.1, ISO 27001, NIST (Basic Familiarity)

OS: Windows, Linux

Work Experience

Financial Services Company (Confidential) July 2026 – Present
Application Security Engineer

- Led an internal **Vulnerability Assessment and Penetration Testing (VAPT)** engagement and PCI DSS v4.0.1 compliance self-assessment across enterprise CRM, payment-processing, and sales-platform applications hosted on AWS.
- Identified critical/high-severity vulnerabilities including **BFLA, IDOR, GraphQL authorization bypass**, and client-side access control flaws using **Burp Suite Pro, OWASP ZAP, Nmap, Nuclei, and sqlmap**.
- Performed AWS cloud security configuration audits (**Prowler**) across multiple AWS accounts, reviewing security groups and firewall rules, driving remediation of critical internet-exposed misconfigurations.
- Conducted **Kubernetes/EKS security assessments** using kube-bench (CIS Benchmark), kube-hunter, Trivy, and Kubescape.
- Deployed and operated a self-managed **Wazuh SIEM/XDR** platform monitoring enterprise endpoints, implementing file integrity monitoring and real-time authentication alerting.
- Ran SCA/dependency vulnerability scanning and GitHub branch-protection audits; tracked remediation via **Jira** and drove PCI DSS evidence collection across all requirement domains.

TIAA July 2023 – March 2026
Cyber Security Analyst

- Worked on **Cloud Security Vulnerability Management (CSPM)** using **Wiz** to monitor and improve cloud security posture across enterprise environments.
- Created **Cloud Configuration Compliance Rules (CCR)** using **Rego** and **Host Compliance Rules (HCR)** using **OVAL** for security and host-level compliance monitoring.
- Analyzed security findings and supported **risk prioritization and remediation tracking** for identified vulnerabilities and control gaps.
- Transitioned to the **security monitoring team**, creating detection searches and monitoring alerts; built automated alert workflows using **Tines** to improve incident response efficiency.
- Utilized **Python** for automation and data refinement; worked with **ServiceNow and Jira** for tracking security issues and operational requests.

TIAA June 2022 – July 2022
Cyber Security Intern

- Built a website with three web servers and implemented **load balancing** for traffic distribution.
- Configured **firewall rules** for secure inbound and outbound communication.

Projects

AWS Web Infrastructure Security Project Aug 2022 – Dec 2022

- Deployed a web application on AWS with **Load Balancer, CloudWatch monitoring, and Route 53** DNS routing; applied security-group/firewall rules and simulated high-traffic conditions to evaluate resilience.

Java Encryption/Decryption Tool Aug 2021 – Dec 2021

- Implemented **AES-based encryption** for text and image files with image-based key authentication.

Certifications & Achievements

ISO 27001 Lead Auditor Certified — Zscaler ZDTA (Zscaler Digital Transformation Administrator) — Zscaler Security Certification — Top 10 Finalist – Lib-a-thon