Pratham Verma

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PROFESSIONAL SUMMARY

Security Analyst with 6 months experience through internships and individual projects, specializing in web application security. Skilled in conducting security assessments for real-world clients, executing patch management, and reducing vulnerability exposure by up to 80%. Developed an AI-powered Web Application Firewall with a 97% detection rate and implemented an ECDSA-based digital signature system that reduced unauthorized access risks by 75%. Adept at delivering actionable security reports, focused remediation strategies, and strengthening overall security posture.

EXPERIENCE

Cyber Security Analyst Intern | Securium Solutions Private Limited   **August 2025 – Present**
- Conducted Vulnerability Assessment and Penetration Testing (VAPT) of web applications for real-world clients.
- Performed security assessments based on client-specific requirements to identify and validate potential risks.
- Executed patch management or updates to ensure identified vulnerabilities were remediated effectively.
- Produced comprehensive security reports with standardized reporting structures, risks, and recommendations.

Security Analyst Intern | SQBGN SafeYourWeb Infosec Pvt. Ltd.   **March 2025 – June 2025**
- Conducted penetration testing on 5+ web applications, identifying and mitigating over 80% of critical vulnerabilities.
- Remediated vulnerabilities including SQLi, IDOR, Broken Authentication, XSS, Rate Limiting and so on.
- Conducted API security testing for based on OWASP API Top 10, implementing mitigation strategies that enhance security.
- Authored detailed security reports, providing actionable insights that remediate timelines by 30%.

Security Intern | Senselearner Technologies Pvt. Ltd.   **September 2023 – October 2023**
- Executed manual and automated penetration tests across web environments using industry-standard methodologies.
- Identified and mitigated vulnerabilities, reducing overall attack surface and improve security by 30%.
- Leveraged tools like Burp Suite, Nmap, gobuster, fuff, wireshark to improve the security posture by 60%.

PROJECTS

Web Application Firewall | Video: YouTube, Code: GitHub   **May 2024**
- Built a data pipeline using Burp Suite and OWASP ZAP to classify web traffic for training an ML-based WAF.
- Designed and deployed a proxy-based WAF using ML techniques, achieving a 97% malicious request detection rate.
- Improved application layer security by intercepting and classifying incoming traffic in real-time.

Digital Signature Verification | Live: Link, Code: GitHub   **November 2024**
- Implemented ECDSA using Elliptic Curve Cryptography for secure digital signatures.
- Enhanced data privacy, reducing risk of unauthorized access by 75%.
- Designed an optimized key generation and storage mechanism to streamline cryptographic operations.

TECHNICAL SKILLS

Programming Languages & Databases: Python 3.13, Java 8, MySQL, PostgreSQL
Cybersecurity: Web Application Security, API Security, VAPT, Penetration Testing, Secure Coding Practices
Security Standards: OWASP Top 10 (Web, Api),
Tools: Kali Linux 2025.1a, GitHub, Vercel, Burp Suite, Nmap, Nikto, Wireshark, gobuster, OWASP ZAP

CERTIFICATIONS

Google Certified Cybersecurity Professional | Google, Coursera: Link
Network Support and Security | CISCO: Link
Jr. Penetration Tester | TryHackMe: Link

EDUCATIONS

Galgotias University | Bachelor of Technology in Computer Science   **June 2022 – June 2026**
- Current CGPA: **8.3/10.0**

ACHIEVEMENTS

Public Speaker – GDG New Delhi Devfest 2k24: Delivered sessions on "AI-Powered Cybersecurity: Strengthening Defense with Machine Learning" to 100+ attendees, contributing to a 35% increase in event participation and engagement.
Writeups – Medium | Link: Authored 20+ in-depth technical blogs on web security, vulnerability exploitation, and ethical hacking, reaching over 10,000 industry professionals and increasing awareness of security best practices.
Cybersecurity Content Creator – Instagram | Link: Documented journey in cybersecurity through 40+ educational posts, covering topics like cyber security, ethical hacking and personal project insights. This consistent sharing improved engagement by 2x and fostered meaningful networks.
Vanguard Community | Link: Founded and lead a cybersecurity community, providing mentorship, career guidance, and knowledge-sharing sessions for 50+ aspiring security professionals. Organized online workshops, skill development, and awareness of emerging cybersecurity trends.