

Vinay Sharma

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EDUCATION

Pimpri Chinchwad University

BTech in Computer Science, 9+ CGPA

Vadgaon, Pune

September 2023 – Present

ACHIEVEMENTS

- **Assigned CVE-2025-61148:** Uncovered a critical vulnerability impacting over **150+ colleges and universities**, securing sensitive data across educational sectors.
- **Security Acknowledgments:** Officially recognized by **NASA, WHO, Harvard University, and Eduplus** for reporting valid security vulnerabilities.
- **Competitions:** Winner of **2 Hackathons**, demonstrating rapid problem solving and innovation.

EXPERIENCE

Penetration Testing Intern

Mar 2024 – Apr 2024

Shadowfox Security (Remote)

- Performed penetration testing on intentionally vulnerable web applications.
- Conducted Wi-Fi security assessments and simulated real-world attack scenarios
- Practiced SQL injection, XSS, and other common web exploits
- Documented vulnerabilities and provided detailed reports with mitigation steps

PROJECTS

Destroyer Project

Aug 2025 – Jan 2026

Secure Data Wiping for Trustworthy IT Asset Recycling, Cross-Platform Development

- Engineered a cross-platform data destruction tool using Python and Flask, featuring a REST API, interactive CLI, and an asynchronous wipe engine supporting multiple erasure standards on Windows and Linux. The system ensures compliance via an automated certification module (ReportLab) that generates auditable PDF reports with QR codes and embedded SHA-256 log hashes for tamper-proof verification.

DDoS Detection and Network Security Tool

June 2024 – Oct 2024

Cybersecurity Research – Deep Learning, Explainable AI.

- Engineered a hybrid deep learning framework integrating Logistic Regression, Random Forest, Neural Networks, and Genetic Algorithms to detect low- and high-rate DDoS attacks. Leveraging the LR-HR DDoS 2024 dataset, the system achieved **99.35% real time classification accuracy** across Software Defined Networks (SDNs), validated via precision, recall, F1-score, and ROC-AUC metrics.

Hybrid EMP-Cyber Warfare System

April 2024 - May 2024

High Voltage Electromagnetic wave.

- Engineered a 100kV Marx Generator with a helical coil to induce transient EMP surges on unshielded IoT devices , integrated with a cyber warfare layer featuring deauth attacks, rogue APs, and WPA2 brute-forcing (Hashcat). The system demonstrated dual-mode disruption of drone and IED systems, simulating real-world threats to contribute to counter-drone and hybrid warfare applications.

TECHNICAL SKILLS

Pen testing, Websecurity, Frida, mobSF, ADB, Analysis, Networking Protocols, Scripting & Automation, OWASP Top 10, Security Tools, Threat Detection, Reporting & Documentation, SIEM, Wireshark, Nmap, Burpsuite, Nessus, SQLMap, Metasploit, Snort, Hydra, John, MITRE ATT&CK, Cyber kill chain

EXTRACURRICULAR

Certifications

- Certified Web Security Expert,
- Google Cybersecurity Specialization,
- Master Cybersecurity Management,
- Offensive Penetration Testing,
- Certified Associate Penetration Tester

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