

Omkar Deodhar

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Summary

Aspiring **Penetration Tester** targeting **Red Team** and **Offensive Security** roles, leveraging **industry standard tools and techniques**. Committed to **continuous up skilling** and cross-team collaboration to strengthen security posture.

Education

Marathwada Mitra Mandal's College of Engineering, Pune, B.E. in Computer Engineering Nov 2022 – Nov 2026

Experience

Security Researcher - Freelance, Pune, India Feb 2025 – May 2025

- Performed **penetration tests** on a live site, identifying **5+ vulnerabilities** that allowed unauthorized content changes.
- Reported **critical info leaks** through **admin/cart endpoints**, **public log files**, and **exposed stack traces** from debug misconfigurations.
- Utilized tools like **Burp Suite**, **Nmap**, and **browser dev** tools for discovery and verification.
- Delivered a detailed **security report** with **10+** remediation steps, improving the overall **security posture of the site**.

Cyber Security and Digital Forensics Intern - Cyber Secured India (CSI), Pune, India Mar 2024 – Jun 2024

- Completed **80+** rooms on **TryHackMe** and **PortSwigger Labs**, conducting **Web and Mobile Application Penetration Testing** in simulated environments.
- Gained hands-on experience in **15+ Linux and Windows privilege escalation** scenarios and **10+ digital forensics challenges**.
- Exploited **25+** vulnerabilities including **injections**, **auth bypass**, **access control flaws**, **CSRF**, and **SSTI** in hands-on labs.

Licenses and Certifications

- Cisco Ethical Hacker:** [Link](#) Aug 2024
- Ethical Hacking Essentials (EC-Council):** [Link](#) Mar 2024
- Google Cybersecurity Professional Certificate (Google and Coursera):** [Link](#) Feb 2024

Projects

URL Classification Engine: [Link](#) Mar 2025

- Built a Python-based **URL classifier** with mitmproxy interception, real-time/manual blocking, and traffic logging. Trained a Random Forest model on TF-IDF vectors, with a Flask panel for live inspection and policy control.

Web Crawler: [Link](#) Nov 2024

- Developed **VulnScout**, a Python-based web crawler and scraper that reports critical vulnerabilities in OEM equipment. Extracts CVE identifiers, CVSS scores, summary, and publish dates from security advisory pages. Features include keyword-based link discovery, dynamic content support, structured output, and automated email alerts.

Port Scanner: [Link](#) Feb 2024

- Developed **Shadow-Scan**, a Python-based port scanner for educational use, identifying open ports and services such as FTP, SSH, HTTP and SMTP. Implemented with Python libraries (socket, ssl, and scapy) for Linux systems, offering a simple interface to scan and retrieve service details.

Packet sniffer: [Link](#) Dec 2023

- Developed **Shadowsniff**, a Python-based network sniffer to capture and analyze packets. Supports protocols like ICMP, DNS, ARP, TCP, and UDP, with real-time display and logging of packet details. Compatible with Linux and features a command-line interface for a customizable capture duration.

Skills

Languages: C++, Python, SQL, JavaScript, Bash

Tools: Nmap, Metasploit, Burp-Suite, Wireshark, SQLmap, OWASP ZAP, Nessus, GitHub, Kali Linux, WAPT, VAPT

Frameworks and Standards: OWASP Top 10, NIST, ISO 27001, GDPR

Soft Skills: Problem-Solving, Critical Thinking, Teamwork, Attention to Detail

Achievements

- Achieved a **top 5%** global ranking on the TryHackMe platform.
- Established** the first-ever Cyber Security Club, **MSOC**, at MMCOE College and currently serving as its **President**.
- Mentored 50+ students** in cybersecurity fundamentals, ethical hacking, and network security, including live demonstrations.
- Achieved **top ranking** in multiple Capture The Flag (CTF) competitions, earning substantial cash prizes