Priyanshu Tiwari

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Kolkata, West Bengal, India

Professional Summary

Cybersecurity undergraduate with expertise in penetration testing, vulnerability assessment, and red team operations. Proven experience developing security tools including web directory scanners, credential testing frameworks, and reverse shells. Strong foundation in Python programming, ethical hacking, and OWASP security principles. Seeking Cybersecurity Analyst or Penetration Tester position.

Education

VIT Bhopal University — Bhopal, India

B.Tech Computer Science and Engineering - Cybersecurity Specialization, CGPA: 8.36/10 — *Aug 2022 – May 2026*

Technical Skills

Security Tools: Burp Suite, OWASP ZAP, Metasploit, Nmap, Wireshark, John the Ripper, Kali Linux, Parrot OS
Programming Languages: Python, C, C++, Java, JavaScript, SQL, Bash, PowerShell
Web Technologies: Flask, React.js, Next.js, Node.js, Express.js, HTML, CSS
Security Domains: Penetration Testing, Vulnerability Assessment, Red Team Operations, OSINT, Digital Forensics

Projects

Web Directory Scanner | Python, Multi-threading, Security Testing — 2025
- Developed Python directory enumeration tool achieving 70 percent faster scanning than traditional tools
- Implemented HTTP status filtering, custom wordlists, and stealth scanning for penetration testing

Authentication Brute Force Tool | Python, Cybersecurity, Concurrent Processing — 2025
- Built credential testing framework achieving 95 percent efficiency in authorized security assessments
- Implemented thread pooling, session management, and real-time logging for penetration testing workflows

Red Team Reverse Shell Framework | Python, Post-Exploitation, Encryption — 2025
- Created encrypted reverse shell with multi-platform compatibility for authorized red team operations
- Implemented persistence mechanisms and obfuscation techniques following ethical hacking principles

SMS Spam Detector | Python, Machine Learning, Scikit-learn — 2024
- Built ML pipeline using TF-IDF vectorization and Naive Bayes achieving 95 percent accuracy on 5500 SMS dataset

Secure Blogging Platform | Flask, SQLAlchemy, OWASP Security — 2024
- Built role-based web application implementing OWASP Top 10 controls and secure authentication

Certifications

Deloitte Cybersecurity Job Simulation - Forage (June 2025) | **Google Cybersecurity Professional** (2025)
Ethical Hacking and Penetration Testing - Udemy (2025) | **IBM Cloud Solutions Architect** (2025)
Python Security Development Bootcamp (2024) | **MongoDB Administration Track** (2025)

Leadership and Activities

Team Captain - VIT Bhopal Football and Cricket Teams (2022-Present) | **Regional Representative** - Kendriya Vidyalaya Yoga Program (2018-2022)