

ROJIT LAMICHHANE

Junior Penetration Tester | Web Application Security | Security Operations

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PROFESSIONAL SUMMARY

Cybersecurity graduate (BSc Hons, Ethical Hacking and Cybersecurity) focused on penetration testing and web application security. Hands-on experience finding and exploiting OWASP Top 10 vulnerabilities (SQLi, XSS, CSRF) with Burp Suite and OWASP ZAP, scanning networks with Nmap, and validating findings with Metasploit in controlled lab environments. Also experienced in network traffic analysis, intrusion detection and security monitoring with Wireshark, Suricata, Splunk and Wazuh. Writes clear technical reports with CVSS-scored findings and practical remediation. Seeking a Junior Penetration Tester, Web Application Security or entry-level Security Operations role.

TECHNICAL SKILLS

Penetration Testing: Web application testing (OWASP Top 10), vulnerability assessment, network reconnaissance, exploitation, CVSS 3.1 scoring, remediation guidance, security reporting

Offensive and Assessment Tools: Burp Suite, OWASP ZAP, Nmap, Metasploit, Kali Linux

Monitoring and Detection: Wireshark, Suricata, Splunk, Wazuh, log analysis, alert triage, incident investigation

Systems and Networking: Windows 11, Windows Server 2019, Kali Linux, Ubuntu Linux/Server; TCP/IP, DNS, VPN, firewalls

Programming and Scripting: Python, Bash, JavaScript, PHP, C, Assembly

Technologies: Docker, FastAPI, React, PostgreSQL, scikit-learn

WEB SECURITY AND PENETRATION TESTING PROJECTS

Web Application Penetration Testing

- Tested web applications in controlled lab environments against the OWASP Top 10, covering SQL injection, cross-site scripting (XSS), CSRF, broken access control and authentication weaknesses.
- Used Burp Suite (Proxy, Repeater, Intruder) for manual testing and OWASP ZAP for automated scanning; verified and prioritised findings, scored them with CVSS 3.1, and documented reproduction steps and fixes.

Vulnerability Remediation and Secure Coding

- Applied secure coding fixes such as parameterised queries, output encoding and anti-CSRF tokens, then re-tested to confirm each vulnerability was closed.

Network Vulnerability Assessment

- Performed host discovery, service enumeration and vulnerability assessment with Nmap and Metasploit; identified, prioritised and documented risks with recommended remediation.

OTHER CYBERSECURITY PROJECTS

NETRA: Hybrid Intrusion Detection System

- Built a lightweight hybrid IDS combining Suricata (signature-based) and Isolation Forest (anomaly detection) for resource-constrained networks.
- Delivered a real-time React dashboard, alert correlation engine, CVSS 3.1 scoring, SHAP explainability and automated/manual IP blocking using FastAPI and PostgreSQL.

Security Monitoring and SIEM Simulation

- Investigated traffic in Wireshark to identify anomalous activity, unauthorised access attempts and indicators of compromise; documented findings and recommended remediation.

Custom Security Tool Development

- Python port scanner for automated network reconnaissance; AES-encrypted password manager and file-encryption utility.
- Isolated Docker-based testing environments for controlled vulnerability analysis and system hardening.

EDUCATION

BSc (Hons) Ethical Hacking and Cybersecurity, Softwarica College of IT and E-Commerce (affiliated with Coventry University), Kathmandu, Nepal

CERTIFICATIONS

- Junior Penetration Tester, TryHackMe, 2024
- Cisco Networking Basics, Cisco Networking Academy, 2023
- CCEP, 2024

LANGUAGES

English, Nepali