

ANANDHU K B

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Professional Summary

Cybersecurity Analyst and Penetration Tester with a proven track record of securing real-world web applications and automating security assessments. Skilled in web application testing, vulnerability analysis, and exploit mitigation using tools like **Burp Suite**, **Nmap**, **SQLMap**, and **Metasploit**. Experienced in identifying and remediating vulnerabilities across Django and PHP applications deployed for live clients. Completed over **200+ hands-on labs** on TryHackMe and HackTheBox, consistently improving practical red team capabilities. Strong background in Python and Bash scripting for security automation, with additional experience developing and hardening full-stack applications.

Education

Christ College, Puliyanmala, Kattappana
Bachelor of Computer Applications (BCA)

Sept 2021 – Mar 2024

Key Security Projects

Thilakkam.com | Django, Python, MySQL

E-Commerce Platform (Freelance Project)

- Performed a complete penetration test; mitigated XSS, CSRF, and SQL injection vulnerabilities.
- Implemented HTTPS, secure sessions, and encrypted transactions, reducing attack surface by **30%**.

Christ College Student Portal | Django, Python

Academic Management System (Freelance Project)

- Secured portal for faculty and students with RBAC, CSRF protection, and audit logging.
- Conducted vulnerability scans and patched 10+ identified issues pre-deployment.

Christ College Kattappana Official Website | PHP, JavaScript, CSS **Institutional Website (Freelance Project)**

- Collaborated in a 3-member team to develop and secure the official college website.
- Hardened input validation and session management to prevent injection and cookie hijacking attacks.

Custom Security Tools

- Developed a Python-based reconnaissance tool integrating **Nmap**, **Gobuster**, and **Nikto** for unified automated reporting.
- Built a Bash toolkit for subdomain discovery and port enumeration, reducing manual reconnaissance time by **40%**.

Cybersecurity Experience

- Completed **200+ practical labs** on TryHackMe and HackTheBox (**Rank: Hacker, 27+ rooms completed**).
- Performed penetration testing on Django/PHP apps using Burp Suite, Nmap, SQLMap, and Metasploit.
- Identified and documented 15+ vulnerabilities with remediation guidance and verification.
- Hands-on with Web App Pentesting, Vulnerability Assessment, Red Teaming, and Privilege Escalation.

Certifications

- Practical Ethical Hacking – The Complete Course (TCM Security)
- Linux Privilege Escalation for Beginners (TCM Security)
- Practical Web Application Security and Testing (TCM Security)
- Certified Cyber Security Analyst – Community Edition

Technical Skills

Pentesting Tools: Burp Suite, Nmap, OWASP ZAP, SQLMap, Metasploit, Hydra, Nikto, Gobuster, Wireshark

Programming & Automation: Python, Bash, PHP, HTML, CSS, JavaScript, SQL, Selenium

Libraries / Frameworks: Django, Flask, Pandas, NumPy, TensorFlow, OpenCV, DeepFace

Security Skills: Web App Pentesting, Threat Modeling, Vulnerability Analysis, Exploitation, Red Teaming, Secure Coding

Operating Systems: Kali Linux, Ubuntu, Windows

Achievements

- Ranked in top 15% globally on TryHackMe; completed **250+ hours** of practical security labs.
- Reduced manual reconnaissance effort by 40% using self-built automation scripts.
- Delivered three production-grade, security-hardened client applications as part of a freelance team.