

# 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, Puliyamala, Kattappana**  
*Bachelor of Computer Applications (BCA)*

Sept 2021 – Mar 2024

## Key Security Projects

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|---|--|
| <b>Thilakkam.com   Django, Python, MySQL</b>  | <b>E-Commerce Platform (Freelance Project)</b> |
| – Performed a complete penetration test; mitigated XSS, CSRF, and SQL injection vulnerabilities.          |  |
| – Implemented HTTPS, secure sessions, and encrypted transactions, reducing attack surface by <b>30%</b> . |  |
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|--|---|
| <b>Christ College Student Portal   Django, Python</b>                                    | <b>Academic Management System (Freelance Project)</b> |
| – Secured portal for faculty and students with RBAC, CSRF protection, and audit logging. |   |
| – Conducted vulnerability scans and patched 10+ identified issues pre-deployment.        |   |
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|---|--|
| <b>Christ College Kattappana Official Website   PHP, JavaScript, CSS</b>                              | <b>Institutional Website (Freelance Project)</b> |
| – 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.