

ANANDHU K B

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Professional Summary

Versatile **Cybersecurity and Software Developer** skilled in secure full-stack development, AI automation, and penetration testing. Experienced with **Python, Django, Flask, PHP, and Machine Learning** frameworks like TensorFlow, DeepFace, and OpenCV. Proven ability to deliver secure, production-ready systems while following OWASP and secure coding practices. Completed **200+ labs** on TryHackMe and HackTheBox, combining hands-on offensive and defensive skills.

Education

Christ College, Puliyanmala, Kattappana

Sept 2021 – Mar 2024

Bachelor of Computer Applications (BCA)

Freelance Projects (Team of 3 Developers)

Thilakkam.com | Django, Python, MySQL

E-Commerce Shopping Platform

- Developed and deployed a secure e-commerce platform with user authentication, payment gateway integration, and order management.
- Implemented HTTPS, form validation, and backend caching to improve performance by **30%**.

Christ College Kattappana Website | HTML, CSS, JavaScript, PHP

Institutional Website

- Collaborated in a 3-member freelance team to build and deploy the official college website with custom CMS features.
- Integrated SEO optimization and accessibility improvements, boosting page reach and load efficiency.

Christ College Student Portal | Django, Python, MySQL

Academic Management System

- Built a secure student portal for attendance, marks, and faculty dashboards with role-based access control.
- Implemented encrypted authentication, CSRF protection, and session security following OWASP standards.

Cybersecurity Experience

- Completed **200+ labs** on TryHackMe ([0x6] VOYAGER) covering enumeration, privilege escalation, and web exploitation (**27 rooms completed**).
- Active on Hack The Box — rank: **Hacker**, with **21 user-owned machines** and multiple challenge categories completed.
- Performed penetration tests on Django/PHP applications using Burp Suite, Nmap, Nikto, SQLMap, Hydra, and OWASP ZAP.
- Automated reconnaissance and reporting using Bash and Python, reducing manual effort by **40%**.
- Hands-on with tools including **John the Ripper, Hashcat, Dirsearch, Aircrack-ng, Metasploit, Wireshark, and Gobuster**.
- Skilled in Web Application Security, Vulnerability Assessment, Threat Modeling, Red Team Simulation, and Post-Exploitation.

Certifications

- Practical Ethical Hacking – The Complete Course (TCM Security)
- Linux Privilege Escalation for Beginners (TCM Security)
- Practical Web Application Security and Testing (TCM Security)
- Burp Suite: Web Application Penetration Testing (EC-Council)
- Multi-Cloud Red Team Analyst [MCRTA]
- Certified Cyber Security Analyst – Community Edition

Technical Skills

Languages: Python, PHP, Bash, HTML, CSS, JavaScript, SQL

Frameworks: Django, Flask, TensorFlow, Bootstrap, MySQL

AI/ML & Data Libraries: OpenCV, DeepFace, Pandas, NumPy

Automation/Testing: Selenium, pytest, Cron, GitHub Actions

Cybersecurity Tools: Burp Suite, Nmap, Nikto, OWASP ZAP, Metasploit, Gobuster, SQLMap, Hydra, Dirsearch, John the Ripper, Hashcat, Wireshark, Aircrack-ng

Security Skills: Web App Pentesting, Privilege Escalation, Reconnaissance, Vulnerability Assessment, Red Teaming

Operating Systems: Kali Linux, Ubuntu, Windows

Achievements

- Ranked in top 15% globally on TryHackMe; completed **250+ hours** of hands-on cybersecurity labs.
- Delivered secure, production-grade freelance projects integrating full-stack and cybersecurity best practices.
- Consistent weekly learning through TryHackMe and Hack The Box practical challenges.