

ANANDHU K B

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Professional Summary

Full-stack **Python Developer** with hands-on experience in building, automating, and deploying web applications using **Django, Flask**, and modern Python libraries. Proficient in REST API development, web automation, and AI/ML integration with **TensorFlow, Pandas, and OpenCV**. Delivered multiple production-grade systems for live clients, applying secure, efficient, and scalable coding practices. Adept at bridging back-end logic with front-end usability to deliver seamless, data-driven applications.

Education

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

Sept 2021 – Mar 2024

Key Projects

- Thilakkam.com | Django, Python, MySQL** **E-Commerce Platform (Freelance Project)**
- Engineered and deployed a live e-commerce platform with authentication, cart management, and secure payment integration.
 - Optimized backend queries and caching, improving page load performance by **30%**.
- Christ College Official Website | HTML, CSS, JavaScript, PHP** **Institutional Website (Freelance Project)**
- Developed and maintained the college's official site, enabling dynamic faculty and admission content management.
 - Enhanced SEO, accessibility, and load time, boosting visitor engagement by **25%**.
- Christ College Student Portal | Django, Python, MySQL** **Academic Management System (Freelance Project)**
- Built a secure student-faculty portal for managing attendance, marks, and dashboards.
 - Implemented role-based access control (RBAC), CSRF protection, and input validation for data integrity.
- Online Tutoring Hub | PHP, MySQL** **E-Learning Platform**
- Developed a tutor-student matching platform with scheduling, feedback, and real-time chat features.
 - Implemented authentication and data encryption for secure session handling.
- Automatic Timetable Generator | Django, Python** **School Scheduling System**
- Designed an algorithm to auto-generate conflict-free academic timetables for multiple departments.
 - Provided an intuitive interface for manual overrides and report generation.

Development Experience

- Designed and consumed REST APIs integrating third-party services for authentication, payment, and email automation.
- Developed data dashboards using Django and Flask with Pandas, NumPy, and Matplotlib for analytics visualization.
- Automated testing and workflow operations using Python and Selenium for end-to-end validation.
- Built AI-driven modules with TensorFlow, DeepFace, and OpenCV for face detection and image recognition.
- Deployed and maintained web apps on Linux servers using Git, Docker.

Certifications

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

Technical Skills

Languages: Python, PHP, JavaScript, Bash, HTML, CSS, SQL
Frameworks: Django, Flask, TensorFlow, Bootstrap, MySQL
Libraries / Tools: Pandas, NumPy, OpenCV, DeepFace, Selenium, Matplotlib
Development Skills: REST APIs, Web Automation, Data Analytics, AI/ML Integration, Testing, Deployment
Environments: Linux, Ubuntu, Windows, Git, Docker, VS Code

Achievements

- Delivered **six complete software systems and some other projects**, including three freelance deployments serving 1000+ users.
- Ranked in top 15% globally on TryHackMe; actively upskilling through AI and backend automation projects.
- Recognized for delivering scalable, secure, and maintainable web solutions with measurable performance gains.