Ishtiaq Ahmad

Python Backend Developer | Django | FastAPI | PostgreSQL | Docker

ishtiaqahmad.connect@gmail.com | +92 312 4393895 | Lahore, Pakistan
GitHub | LinkedIn

SUMMARY

Python backend developer building and maintaining a production multi-tenant ISP platform with Django, PostgreSQL, Redis, Celery, Docker, and AWS. Internship experience developing Django REST APIs that integrate computer vision with PostgreSQL. BS Software Engineering candidate, graduating February 2027.

SELECTED BACKEND PROJECTS

WifiWala - Multi-Tenant ISP Management Platform

Jun 2026 - Present | wifiwala.online
Django, PostgreSQL, FreeRADIUS, Redis, Celery, Docker, AWS Lightsail

- Designed and deployed a production SaaS platform serving 1 paying ISP client and approximately 100 active subdealer/subscriber users, with four role-based portals: Superadmin, ISP Admin, Subdealer, and Subscriber.
- Integrated FreeRADIUS for subscriber authentication and billing; built Celery and Redis background jobs for scheduled synchronization and other tasks.
- Containerized the WhatsApp notification service separately from the core application and deployed the full stack on AWS Lightsail; maintain the platform based on live client usage.

The Judge - Automated Code Evaluation Platform

Sep 2025 - Present | Django, Python, Docker, PostgreSQL, REST API, JavaScript

- Designed a normalized SQL schema and a Docker-containerized execution engine for multi-language code evaluation, connecting submission ingestion with structured result storage and reporting.
- Built a Django REST API supporting concurrent code execution and integrated a JavaScript frontend for real-time results and performance analytics.

Vision-Based Autonomous Car with Indoor Positioning - Final-Year Project

In progress | FastAPI, Raspberry Pi 5, OpenCV, WebSockets, NCNN

- Developing a FastAPI backend on Raspberry Pi 5 to receive position coordinates from an overhead camera through WebSockets; implementing lane following and traffic sign/light detection with edge inference.
- Built a web dashboard for manual/autonomous mode switching and live battery and temperature telemetry.

PROFESSIONAL EXPERIENCE

Punjab Monitoring & Implementation Unit (PMIU)

Software Engineering Intern | Jun - Aug 2025 | Lahore, Pakistan

- Built Django REST APIs integrating a computer vision pipeline with PostgreSQL, including data transformation, validation, and structured storage.
- Fine-tuned a YOLOv8 model for automated student headcount in a project covering 200+ government schools; monitored precision, recall, and F1-score to guide retraining.

TECHNICAL SKILLS

Backend: Python, Django, Django REST Framework, FastAPI, REST API design, Celery, Redis, FreeRADIUS
Databases: SQL, PostgreSQL, MySQL, SQLite
Deployment: Docker, AWS EC2/Lightsail, Nginx, Git, CI/CD basics
Additional: C++, JavaScript, HTML/CSS, YOLOv8, OpenCV, NCNN

EDUCATION

BS Software Engineering - University of Management and Technology (UMT)

Expected Feb 2027 | CGPA: 3.50/4.00 | Lahore, Pakistan

SELECTED ACHIEVEMENTS

NSCT 2026: 98.5th percentile (top 1.5%). **Competitive programming:** 1st place at ICTSE 2025, Tech-Fiesta 2025, and SoftCom 2026. **LeetCode:** 200+ problems solved.