

# Mubashir Rehman

Full-Stack Engineer (Backend-Leaning)

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## PROFESSIONAL SUMMARY

Backend-leaning full-stack engineer with 3+ years building backend-heavy products with real user-facing workflows. Strong in Python (Django/DRF, FastAPI), PostgreSQL, REST APIs, and Docker-based deployments, with shipped production React/TypeScript front-ends. Comfortable owning a feature end to end — schema, API, UI, and deploy — across AI-assisted products, internal tools, and developer tooling.

## TECHNICAL SKILLS

**Frontend:** React, TypeScript, Vite, Astro, Tailwind CSS, shadcn/ui, Framer Motion

**Backend:** Python, Django, Django REST Framework, FastAPI, REST APIs, WebSockets (Django Channels), OAuth2 / JWT / RBAC

**Data:** PostgreSQL, MySQL, Redis, pgvector, Supabase, SQLAlchemy / Alembic

**AI / LLM:** OpenAI API, Google Gemini, LangChain, LangGraph, embeddings / semantic search

**Cloud / DevOps:** Docker, Docker Compose, GitHub Actions, CI/CD, Nginx, AWS (EC2/ECS/S3/IAM), DigitalOcean, Vercel

**Async / Automation:** Celery, n8n, asyncio, background workers

## EXPERIENCE

### Software Engineer — TransData

Lahore, Pakistan · Mar 2025 – Present

- Primary backend engineer on a multi-tenant SaaS platform — owned the core backend end to end (7 services, 60+ REST endpoints, Django REST Framework), authoring ~two-thirds of the codebase.
- Shipped production React/TypeScript front-end work alongside the backend, owning features end to end.
- Built real-time notifications with WebSockets (Django Channels), OAuth2 + JWT refresh auth, and Stripe-based subscription billing.
- Implemented semantic search with Google Gemini embeddings + pgvector and Redis caching; built AI content pipelines with versioned prompt management (n8n).
- Customized ERPNext/Frappe v16 (custom doctypes, server/client scripts, task-tree UI) and migrated a Django-based HRMS for a ~200-employee workforce with zero-downtime deploys.

### Team Lead & Software Engineer — VeritusLabs

Lahore, Pakistan · Jul 2023 – Mar 2025

- Led a team of 4 building QGroundControl-based drone swarm control (C++ / Qt / QML) for 10+ UAVs at 50Hz telemetry.
- Built a full-stack AI prompt-management web app: FastAPI/Django backend with OpenAI GPT-4 streaming, RBAC, and S3 storage, plus the front-end UI.
- Automated AWS infrastructure with Boto3 (VPC, EC2, IAM, ECS) and Dockerized CI/CD across Agile sprints.

### Teaching Assistant — Information Technology University

Lahore, Pakistan · Sep 2022 – Jan 2025

- Mentored 60+ graduate students in Advanced OS, Virtualization, and Distributed Systems; designed labs for 100+ undergraduates.

### Game Development Intern — GameBole

Lahore, Pakistan · Mar 2022 – Aug 2022

- Built Android (Unity/C#) and web (PlayCanvas/JS) games with object pooling and asset pre-loading; 5K+ downloads, 4.2★ rating.

## SELECTED PROJECTS

- HireTrack — AI Résumé Builder & Job Tracker** (*open source, live*) — Designed and built end to end: React 19 front-end, Supabase Auth + row-level security, a deterministic-first LangGraph JD pipeline, client-side DOCX/PDF/Markdown export, and an offline-first PWA. Supports 5 AI providers (BYOK). [GitHub](#) · [Live](#)
- Personal Portfolio** (*open source, live*) — Astro static site with role-targeted landing pages, an AI chatbot island, full SEO/GEO (JSON-LD, lms.txt), and CI/CD to GitHub Pages. [Live](#)
- AI Prompt Management Platform** — Full-stack Django/FastAPI + OpenAI GPT-4 streaming tool with RBAC and S3 storage.

## EDUCATION

**BS Computer Science** — Information Technology University, Lahore (2018 – Dec 2024) · PEEF Scholarship

## PUBLICATIONS

**Evaluation of a Low-Cost Single-Lead ECG Module for Vascular Ageing Prediction** — *Circuits, Systems, and Signal Processing (CSSP)*, Springer, 2025 · co-author (equal contribution) · DOI [10.1007/s00034-025-03048-2](https://doi.org/10.1007/s00034-025-03048-2)

Role: data collection, ML pipeline, and model training/evaluation (Random Forest, ResNet-18 transfer learning).