

Aqib Ali Ghumro

Software Engineer | Backend & Full-Stack

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Professional Summary

Software Engineer with 1+ year of professional experience building backend systems and end-to-end business software. Worked with local and international businesses to understand manual workflows and turn them into reliable software, automation, and operational tools from requirements and data modeling through APIs, integrations, testing, deployment, and support. Strongest in Node.js, Python/FastAPI, PostgreSQL, AWS, Docker, and React/Next.js.

Experience

Software Engineer

Jul 2025 – Present

Touchperia

Karachi, Pakistan

- Build and maintain backend APIs and product workflows across Makaanza, HairZone, and an internal HR platform, covering authentication, bookings, payments, notifications, and third-party integrations.
- Built core HR workflows for employee records, attendance, payroll, leave, documents, and onboarding; set up GitLab CI/CD and streamlined repeat deployments.
- Diagnosed AWS deployment issues using CloudWatch, IAM, and environment configuration; write unit, integration, API, and Playwright end-to-end tests.
- Work with product stakeholders on requirements, estimates, implementation, verification, and release readiness across web and mobile products.

Projects

Employee Activity Tracker | *Fastify, Prisma, Electron, Next.js, PostgreSQL, S3/MinIO*

Live Demo

- Built an end-to-end desktop and web platform for work sessions, activity capture, screenshots, teams, projects, reporting, and exports.
- Connected the Electron client to Fastify/Prisma APIs and a Next.js dashboard with authentication, presigned object-storage uploads, workspace controls, and automated tests.

AI Document Assistant | *FastAPI, Next.js, LangChain, Chroma, PostgreSQL, Docker*

- Built a RAG backend for document ingestion, embeddings, retrieval, metadata filtering, and grounded answers with citations tied to retrieved source passages.
- Added authentication, conversation history, streaming SSE responses, grounding checks, and retrieval controls for document, folder, tag, and date filters.

ZamzamTrader | *NestJS, Prisma, PostgreSQL, React, REST APIs*

Live Demo

- Built a retail and inventory platform covering purchasing, sales, returns, stock adjustments, invoicing, credit, reports, and party ledgers.
- Designed modular NestJS/Prisma APIs with JWT authentication, validation, Swagger documentation, and transaction records linking inventory movements to billing history.

Technical Skills

Languages: Python, TypeScript, JavaScript, SQL

Backend: Node.js, FastAPI, NestJS, Express.js, Django, REST APIs, Prisma, JWT

Databases: PostgreSQL, MongoDB, Supabase

Frontend/Mobile: React, Next.js, Flutter, React Native, Electron

Cloud/DevOps: AWS (EC2, S3, CloudFront), Docker, GitLab CI/CD, PM2, Nginx

Testing/Integrations: Unit, Integration, API, Playwright E2E, Stripe, Tap Payments, OAuth

Education

NED University of Engineering & Technology

Bachelor of Software Engineering

2021 – 2025

Karachi, Pakistan