Amir Shahzad

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SUMMARY

Full Stack Software Engineer with 4+ years of experience building production-grade web applications using the **MERN stack** and **NestJS/Next.js**. Strong command of **MongoDB, MySQL, PostgreSQL, Express.js, React, Node.js, NestJS, Next.js, Prisma** and **TypeORM**. Focused on API design, database optimization, server-side rendering, and microservices architecture.

EDUCATION

Islamia University Bahawalpur - IUB **2022**
MCS (Master of Computer Science) *Bahawalpur, PK*

Teaching Assistant: Web Programming, Blockchain and Software Engineering

WORK EXPERIENCE

Full Stack Software Developer **June 2025 – Present**
iTitans

Full Stack Developer **April 2024 – May 2025**
Consultancy Outfit

Full Stack Developer **March 2023 – April 2024**
Ahmed Apps

Full Stack Developer **April 2021 – February 2023**
Workfello

PROJECTS

Rental App

- Engineered a full-stack car rental platform for Banister Nissan using React, Node.js, and MongoDB, enabling vehicle search, detail browsing, and date-specific booking.
- Implemented real-time availability filtering with dynamic pricing updates and instant booking confirmation.
- Enforced JWT-based authentication and multi-layer input validation to safeguard user data.

Otobucks

- Architected backend services for a UAE-based on-demand car service platform (tyre changing, rentals, washing, towing, maintenance) using NestJS and PostgreSQL.
- Established real-time notification pipelines for booking confirmations and payment alerts via email and in-app messaging.
- Engineered admin APIs for booking monitoring, service category management, and revenue analytics.

Sanady

- Spearheaded NestJS backend for a mobile health app targeting elderly care, including caregiver portal with emergency alerting and fall-incident reporting.
- Configured push notifications for hydration, step goals, and prayer reminders using Firebase Cloud Messaging.
- Rolled out gamified step tracking, workout plans, and diet modules with JWT/RBAC auth, Stripe billing, and multilingual support (EN/AR/UR).

Five Star Roofing

- Led NestJS backend for a multi-tenant SaaS platform serving multiple roofing contractors with isolated data access and tenant-specific configurations.
- Constructed modules for customers, estimates, invoices, job tracking, and payments with Stripe and Square integrations.
- Automated the invoicing lifecycle — PDF generation, email notifications, and real-time status updates — using an event-driven architecture.
- Boosted API throughput via query-level caching, strategic indexing, and optimized database transactions.

Fish Rook

- Built a modular NestJS REST API for a fishing pond booking marketplace, covering pond discovery, session reservations, subscriptions, and end-to-end Stripe payments.
- Implemented role-based API layers (guests, hosts, affiliates, admins) for listings, bookings, reviews, and host onboarding.
- Wired wallet management with host payout flows, referral rewards, and Firebase push notifications for mobile clients.
- Shipped admin APIs for pond approvals, booking oversight, analytics, and platform configuration using TypeORM, MySQL, Azure Blob Storage, and Swagger.

In Shape Dates

- Authored REST APIs and WebSocket chat infrastructure for a fitness-and-dating mobile app (iOS/Android) using NestJS, PostgreSQL, and TypeORM.
- Launched a trainer marketplace with session booking, tiered commissions, ratings, Socket.io messaging, and Agora video calls.
- Incorporated AI-generated workout plans, meal logging, goal tracking, and a product catalog into a unified wellness feature set.
- Hardened the platform with JWT/RBAC auth, Stripe subscriptions, AWS S3 media storage, and Redis caching.
- Exposed admin APIs for user management, plan configuration, trainer analytics, and global system settings.

Med Legal Safe Keep

- Authored REST APIs and provider portal services for a health-and-legal records platform, powering iOS and Android clients using NestJS, MySQL, and TypeORM.
- Architected a medical vault with AWS S3 document storage, family profiles, insurance logs, vaccination records, and structured health questionnaires.
- Configured cron-based medication reminders and OneSignal push notifications; enabled secure record sharing via Twilio SMS approval flows.
- Set up admin and provider APIs for healthcare onboarding, billing plan management, access control, and system configuration.

OTHER PROJECTS

Tyre Management App

- Built a workshop management system using the MERN stack with job card generation, real-time service tracking, technician assignment, vendor catalogues, and low-stock alerts.
- Integrated Nodemailer and EJS templates for automated service-update and invoice emails; generated PDFs with PDFKit and analytics charts with Chart.js.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python
Frontend: React.js, Next.js, TailwindCSS, Material UI
Backend: Node.js, NestJS, Express, GraphQL, REST APIs, WebSockets, Redis, Sequelize, Prisma, TypeORM
Databases: MySQL, PostgreSQL, MongoDB
Cloud & DevOps: AWS S3, Azure Blob Storage, Firebase, Docker, Linux
Integrations: Stripe, Square, Twilio, OneSignal, Agora, Socket.io, Nodemailer, Swagger UI
Tools: Git, GitHub, VS Code, Postman, Jira, Trello, ClickUp