# Ali Raza

## Senior Full-Stack Engineer (Backend-Focused) | Node.js | NestJS | React | AWS | DevOps

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## PROFESSIONAL SUMMARY

Senior Full-Stack Engineer with 5+ years of experience designing, building, and deploying scalable web applications, with deep strength on the backend. I specialize in Node.js, NestJS, TypeScript, GraphQL, and PostgreSQL, and I build React frontends and run production deployments on AWS. I have built multi-tenant SaaS platforms, an NFT marketplace, AI-powered products, and real-time systems from scratch, owning architecture, API design, data modeling, authentication, payments, and cloud infrastructure. Hands-on with DevOps, including CI/CD automation, Docker, Linux servers, Nginx, and SSL/TLS, and comfortable leading backend development, mentoring junior developers, and working in Agile/Scrum teams.

## TECHNICAL SKILLS

**Languages:** JavaScript (ES6+), TypeScript, SQL

**Backend:** Node.js, NestJS, Express.js, RESTful APIs, GraphQL (Apollo), Microservices, WebSockets (Socket.IO), Event-Driven Architecture (Queues, Pub/Sub)

**Frontend:** React.js, Redux, React Query, HTML5, CSS3, API Integration

**Databases & ORMs:** PostgreSQL, MySQL, MongoDB, MikroORM, TypeORM, Prisma, Sequelize, Mongoose, Database Design, Query Optimization

**Cloud & DevOps:** AWS (EC2, RDS, S3, IAM), CI/CD Pipelines, Docker, Linux, Nginx, Reverse Proxy, SSL/TLS, DNS, PM2, Git, GitHub

**Security:** Keycloak, OAuth 2.0, JWT, Role-Based Access Control (RBAC), API Security (Helmet, CORS), Rate Limiting & Throttling, Audit Logging

**AI & Integrations:** OpenAI API, Prompt Engineering, Stripe, Web3 / Blockchain (Smart Contracts, MetaMask, Coinbase Wallet), Shippo, Synthesia

**Architecture & Practices:** System Design, Multi-Tenant SaaS, Clean & Modular Architecture, Performance Optimization, Scalability, Production Support, Agile/Scrum

## PROFESSIONAL EXPERIENCE

### Senior Software Engineer – Backend (Node.js)

**Feb 2025 – Present**

**ibex (Virtual World Pvt Ltd)** | Lahore, Pakistan

*Enterprise help desk and case management platform for call centers, built as one reusable product for multiple enterprise clients.*

- Lead backend development of the platform from scratch using NestJS, TypeScript, GraphQL (Apollo), PostgreSQL, and MikroORM.
- Designed a multi-tenant architecture with an isolated database per client, dynamic tenant onboarding, and automated migration execution.
- Engineered a configurable form builder with calculated fields, conditional logic, and dynamic field rendering, so agents capture customer interactions that become tickets in real time.
- Implemented SLA/TAT tracking, escalations, approvals, and trigger-based workflow automation across tenants.
- Integrated Keycloak for centralized authentication with fine-grained role-based access control (RBAC), and built custom user management for departments, users, and roles.
- Built email-to-ticket ingestion from Gmail and Microsoft mailboxes, real-time updates over Socket.IO, and notifications by email, WhatsApp, and SMS.
- Delivered reporting and analytics modules with configurable columns and CSV/PDF export, plus database audit and change logs.
- Run production releases on Linux servers with PM2 and Nginx, and coordinate deployments and production troubleshooting with frontend developers, Scrum teams, and managers.

### Senior Software Engineer
Nov 2023 – Jan 2025

**Argon Tech Inc** | Lahore, Pakistan

*Galileo: NFT marketplace for web and mobile serving European users (galileoprotocol.io).*

- Owned the end-to-end backend architecture, built from scratch with Node.js, Express.js, PostgreSQL, and Sequelize.
- Designed every RESTful API, database schema, and service module with full technical ownership.
- Integrated blockchain smart contracts and managed Web3 interactions across backend and frontend layers.
- Implemented MetaMask and Coinbase Wallet payments and a secure escrow payment flow for USDT transactions.
- Integrated the Shippo API for address validation and end-to-end shipping of physical NFT orders.
- Designed and optimized an engagement-based ranking algorithm driven by purchase volume, review scores, and view counts.
- Shipped core marketplace features including browsing, purchasing, cart, wishlists, and order management.

### Senior Full-Stack Developer
Jan 2023 – Nov 2023

**Ekkel AI Pvt Ltd** | Lahore, Pakistan

*AI-powered content products and a multi-tenant SaaS security-awareness platform.*

- Developed and maintained scalable Node.js (Express.js) backends for AI and SaaS products, integrating OpenAI (ChatGPT) APIs with real-time streaming responses.
- Applied prompt engineering to produce structured, high-quality AI output.
- WordRocket (wordrocket.ai): built backend pipelines for multi-step content generation, from outline to introduction to full article, with streaming and pause/resume.
- Lunchbreak (lunchbreak.ai): developed the backend for a student AI tool with essay generation, AI-content detection, and text humanization APIs.
- Meta1st (meta1st.ai): implemented multi-tenant onboarding with role-based employee management, Stripe subscription billing with tiered access and usage limits, and AI training videos through the Synthesia API.
- Designed end-to-end phishing simulation campaigns with domain spoofing, campaign-based targeting, and automated training enrollment.

### Backend Developer (Node.js)
Sep 2021 – Jan 2023

**Hazel Mobiles** | Lahore, Pakistan

*Real-time communication and social networking applications for mobile and web.*

- Designed and built backends from scratch with Node.js, Express.js, and Socket.IO.
- Hibrid (hibrid.app): delivered one-to-one, group, and community messaging with real-time delivery and sharing of audio, video, images, and documents.
- Optimized message handling and media transfer for high concurrency.
- Built APIs for a location-based dating app: geolocation discovery and matching, likes, chat, galleries, privacy controls, and block/unblock.
- Integrated Stripe subscriptions with tier-based feature access.
- Collaborated with frontend teams to deliver responsive experiences across mobile and web.

## CLOUD & DEVOPS EXPERIENCE

- Provisioned and configured AWS EC2 instances for Node.js applications, and managed IAM roles and permissions following least-privilege principles.
- Set up Amazon RDS for application databases and Amazon S3 storage, securing object access with presigned URLs.
- Configured Nginx reverse proxies, SSL/TLS certificates, and DNS for production domains and subdomains.
- Automated build and deployment with CI/CD pipelines, and used Docker for consistent containerized environments.
- Ran Node.js services in production with PM2 process management and environment configuration on Linux servers.
- Diagnosed and fixed production deployment issues, including Nginx HTTP/2 and SSL configuration problems.

## EDUCATION & LANGUAGES

### Bachelor of Science in Computer Science
2017 – 2021

**PMAS Arid Agriculture University** | Rawalpindi, Pakistan

**Languages:** English, Urdu