

# Muhammad Tayyab

Full-Stack Developer · NestJS · Next.js · Node.js · 5+ Years

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## SUMMARY

Full-Stack Developer with 5+ years building and shipping 20+ production-grade SaaS platforms across enterprise, telehealth, fintech, booking, and social domains. Deep expertise in NestJS microservices, Next.js monorepos, multi-gateway payments, and HIPAA/GDPR-compliant architecture. Consistently owns full-stack delivery solo — from database schema design to cloud deployment — with scalable multi-tenant structures and clean CI/CD pipelines.

## KEY ACHIEVEMENTS

- **Designed and shipped Orbiz** — full multi-tenant enterprise suite: HRMS (recruitment pipeline, Kanban board, onboarding, career portal), AMS, Vault, Filespace, Super Admin — NestJS microservices + Next.js Turborepo
- **Sole architect of LetsPadel** — complete tri-view court booking platform with real-time WebSockets, 3 payment gateways, and tournament engine; shipped to production on schedule
- **Architected Glowish (Scroloop) monorepo foundation** — NestJS microservices + PostgreSQL + GraphQL backend, Next.js + Shadcn UI frontend; built and integrated full GraphQL authentication service (signup, login, password reset, account recovery)
- **Delivered HIPAA/GDPR-compliant telehealth platform (GetZeuss)** — automated prescription workflows integrated with 503A/503B licensed compounding pharmacies
- **Uses Claude, Claude Code, and ChatGPT as core engineering tools** — AI-assisted architecture planning, code generation, debugging, and rapid prototyping across all production projects

## PROFESSIONAL EXPERIENCE

### Senior Software Engineer II · Innovation Insight (Remote)

Feb 2025 – Present

#### Orbiz — Multi-Tenant Enterprise Suite *NestJS Microservices · Next.js · Turborepo · MongoDB · GraphQL · RabbitMQ · Shadcn UI · Tailwind*

- **Architected from scratch** — single deployment, full data isolation per org; each module an independent NestJS microservice communicating via RabbitMQ through a shared auth gateway; MongoDB + GraphQL throughout
- **Super Admin & Admin Dashboards** — org provisioning, RBAC, plan/subscription management, audit logs, org-level configuration
- **HRMS — Recruitment & HR Suite**: jobs & assessments, candidate applications, employee scoring and feedback; Kanban hiring board (Applied → Screening → Interview → Offer → Hired); interview scheduling, next-round and offer email automation
- Candidate management — send offer, reject, onboard; employee onboarding via HR-initiated or self-invite flow with document upload, contract generation, and e-signature
- Career portal — public job listings, employee-facing apply flow, invitation management; departments hierarchy, per-employee document storage, bulk upload
- Employee Dashboard & Profiles — personal profile, employment history, assigned documents, feedback history
- **AMS — Attendance Management System (GraphQL · MongoDB)**: clock-in/clock-out (Clockify-style), daily/weekly/monthly summaries; leave requests, approval workflows, leave balance, leave type config per org; exportable attendance reports
- **Vault** — org-scoped credential/secret storage, encryption at rest, access audit trail · **Filespace** — multi-tenant file storage, folder hierarchy, permission-based sharing, versioning, AWS S3
- **Frontend**: Next.js + Turborepo monorepo — shared Shadcn UI + Tailwind package, per-app builds, typed GraphQL contracts

#### Glowish (Scroloop) — Social Platform Foundation *NestJS Microservices · Next.js · Prisma · PostgreSQL · GraphQL · Shadcn UI · Tailwind · Turborepo*

- **Initialised full monorepo architecture** — NestJS microservices backend and Next.js frontend in a single Turborepo workspace; independent deployable services with shared packages and per-app builds
- **Designed and implemented GraphQL-based Auth Service** — signup, login, password reset, and account recovery; JWT + refresh token strategy with secure HTTP-only cookies
- **Integrated auth APIs into Next.js frontend** — login, signup, and reset flows built with React Hook Form + Zod validation, typed GraphQL hooks, and Shadcn UI components

#### GetZeuss — Telehealth & eCommerce Platform *Astro · Next.js · NestJS · 29Next · HIPAA/GDPR*

- Expanded HIPAA/GDPR-compliant telehealth platform across TRT, HRT, Hair Restoration, and Skin programs — 503A/503B licensed pharmacies; **automated prescription workflows** reducing admin overhead ~60%
- Integrated **29Next** for subscription lifecycle and **ZeussCRM** for product/patient sync; built patient self-service portal for treatment plans and order tracking

**LetsPadel — Court Booking, Tournament & Coaching** *NestJS · Next.js · PostgreSQL · Prisma · Stripe · Paysera · WebSockets · AWS S3*

- **Architected and delivered solo** — tri-view system (players, venues, coaches); real-time WebSocket availability, Blitz/Classic tournament engine, recurring bookings
- **Multi-gateway payments:** Stripe (Cards, Apple Pay, Google Pay), Paysera, cash — scoped per context; Stripe Subscriptions for coach billing; Sentry + SonarQube + Jest CI gates

**EdgeOCR · PaintNite / ClassPass** *Next.js · NestJS · GraphQL · Stripe · AWS Lambda*

- **EdgeOCR** — Stripe subscription flows, credit tracking, idempotent webhooks, multi-tenancy for orgs and teams, Google Sheets waitlist automation
- **PaintNite** — AWS Lambda services for real-time sync between PaintNite and ClassPass APIs (venues, events, reservations, cancellations)

**Senior MERN Stack Developer** · [Smart Soft Studios](#)

*Dec 2021 – Feb 2025*

**JustNetwork · DoctHub · BarberOne / Vanile.me / Exclusively** *Next.js · NestJS · MongoDB · Agora · Stripe · Twilio*

- **JustNetwork** — migrated React.js → Next.js; integrated Agora video, CometChat, Google/Outlook Calendar, Stripe/PayPal, SendGrid, Pusher
- **DoctHub** — multi-language (EN/FR/AR) healthcare appointments, Agora video consultations, doctor and pharmacy management
- **BarberOne / Vanile.me / Exclusively** — timezone-aware booking and eCommerce; Stripe, Twilio SMS, Agora video; full-stack ownership

**Other Notable Projects**

- **Derisky** (AI risk SaaS), **Jigen** (NFT + MetaMask auction), **DanceOn** (TensorFlow analytics), **DeFi Launchpad** (token presale + DEX listing), **YallaGive** (charity fundraising), **WebCEO** (SEO — Supabase + Next.js)

**MERN Stack Developer** · [Heapware](#)

*Jun 2021 – Dec 2021*

- Built **WeMax** — eCommerce platform with real-time engagement, product categorisation, and third-party backend integrations

## TECHNICAL SKILLS

**Frontend** React.js, Next.js, Astro, Redux Toolkit, Zustand, TypeScript, MDX

**Backend** Node.js, NestJS, Express.js, Microservices, GraphQL, RabbitMQ, REST APIs

**Databases** PostgreSQL, MongoDB, Redis · Prisma ORM, Sequelize, Knex

**Monorepo** Turborepo, pnpm workspaces, shared packages, per-app Next.js builds

**DevOps / CI** Docker, AWS (Lambda, S3, EC2, CloudFront), Azure, Vercel, Netlify, Render, Jest

**Localisation** next-intl, react-i18n, Languine AI

**Payments** Stripe (Card, Apple Pay, Google Pay), PayPal, Paysera, 29Next

**Real-Time** WebSockets, Socket.io, Agora, CometChat, Pusher

**UI** Tailwind CSS, Shadcn UI, Material-UI, Ant Design, React Hook Form, Zod

**AI Tools** Claude, Claude Code, ChatGPT — architecture, code generation, prototyping

**Integrations** Firebase, Twilio, SendGrid, Sentry, sonarQube, Make, Brevo, Google/Outlook Calendar, MetaMask

**Compliance** HIPAA · GDPR — healthcare data flows, consent management

## EDUCATION

**BS (Hons) in Information Technology**

*University of the Punjab, Lahore · 2016 – 2020*