Muhammad Khurram

Software Engineer │ MERN Stack │ Backend-Focused

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🌐 Portfolio / Live Projects:

reflect.khurammirza.com │ alhabibtravel.co.uk │ umrahpackage.alhabibtravel.co.uk │
https://ticketbookings.site │ thewildoasis.khurammirza.com

PROFESSIONAL SUMMARY

Software Engineer with 3+ years of hands-on experience developing scalable web applications using the MERN stack. Strong foundation in software architecture, database systems, and REST API development. Passionate about building maintainable systems and collaborating within cross-functional teams.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript (ES6+)

Frontend: React.js, Next.js (App Router), Tailwind CSS, Redux, Context API

Backend: Node.js, Express.js, REST APIs, JWT Authentication, Zod Validation

Database: MongoDB (Aggregation Pipelines, Schema Design, Normalization), Supabase

DevOps & Tools: Git, GitHub, Postman, Vercel, Render

PROFESSIONAL EXPERIENCE

Software Engineer (Contract) AI Habib Travel Ltd │ *London, UK (Remote)* │ *2025*

- Owned the full software development lifecycle for multiple paid client projects (requirements, system design, development, deployment).
- Architected and re-engineered legacy systems into modern, scalable full-stack applications using Next.js, Node.js, and MongoDB.
- Designed custom admin dashboards enabling real-time content and data management across 200+ dynamic pages.
- Implemented performance optimizations reducing page load times from ~2 minutes to under 5 seconds (≈95% improvement), directly increasing lead generation from 1–2/day to 12–15/day.
- Built secure, production-ready REST APIs with JWT-based authentication and structured validation using Zod.
- Designed scalable MongoDB indexing strategies to improve query efficiency and reduce response time.

- Delivered a lightweight, conversion-focused landing page, optimized for fast load times and efficient user query collection.
- Collaborated directly with non-technical stakeholders to translate business requirements into scalable technical solutions.

KEY PROJECTS

Reflect – Personalized AI Learning Platform (Final Year Project)
Role: Lead Full Stack Engineer

- Designed and implemented a scalable MERN system integrating Groq AI API for dynamic learning content generation.
- Engineered a complex MongoDB schema to manage adaptive learning paths, user progress tracking, and AI-generated assessments.
- Implemented secure authentication and optimized state synchronization to ensure low-latency user experience.
- Supports 100+ concurrent Users
- 🔗 Live: reflect.khurammirza.com

High-Performance Business Platform (Client Project)

- Re-architected a legacy website into a modern Next.js full-stack application serving hundreds of dynamic pages and handling 10+ MongoDB collections.
- Implemented on-demand revalidation to balance static performance with dynamic data freshness.
- Developed a custom admin panel allowing non-technical users to efficiently manage large datasets.

Conversion-Optimized Landing Pages (Client Projects)

- Diagnosed critical performance bottlenecks, improving Google Ads campaign performance.
- Optimized asset delivery and rendering strategies, achieving up to 95% reduction in load time.
- Directly contributed to increased lead volume and improved return on ad spend (ROAS).

EDUCATION

Bachelor of Science in Software Engineering
COMSATS University Islamabad, Sahiwal Campus │ *2022 – 2026* │ 3.91/4 CGPA
Focus Areas: Software Architecture, Database Systems, Web Engineering