

Muhammad Awais

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SUMMARY

Backend engineer with 2.5+ years building production systems in NestJS, Node.js, and PostgreSQL. Experienced across REST APIs, GraphQL, authentication architectures, cloud infrastructure on AWS, Elasticsearch, and CI/CD pipelines. Focused on writing maintainable, scalable systems — not just code that ships. Open to remote-first engineering teams where backend quality matters.

EXPERIENCE

Software Engineer | OCloud Solutions

January 2025 - January 2026

- Project: Impactly — B2B ESG data intelligence platform serving financial institutions across the Nordics & Baltics
- Independently designed and built a dynamic Carbon Emissions Calculator covering Estonia, Latvia, and Lithuania — generating annual CO₂ reports across multiple emission sources, with fuel quantity derived from spend amounts using historical 2020 price tables sourced from Excel datasets
- Implemented Elasticsearch integration for fast retrieval across large volumes of company and ESG records, improving search performance across the platform
- Built a dynamic JSON form engine — enabling runtime-configurable data collection forms without frontend code changes, reducing deployment effort for new ESG data workflows
- Contributed Next.js backend development within a cross-functional team on a live European fintech product

Software Engineer | Kwanso

August 2023 - January 2025, Johar Town, Lahore

- Designed and implemented a device session management system — restricting concurrent active sessions per user using refresh token tracking, initially persisted in PostgreSQL then migrated to Redis for performance
- Developed the backend for an internal Employee Management System using NestJS and PostgreSQL — designed database schemas independently after initial guidance from a senior engineer
- Built a multi-site content platform merging Kwanso Labs, Public Site, and Talents into a single Strapi CMS with dynamic per-site components, consuming data via Next.js
- Developed a custom Strapi plugin to generate CloudFront signed URLs for private S3 assets — securing image delivery across all three sites without exposing raw S3 paths
- Built and maintained a social media application — implementing n-level nested comment threading with optimised React rendering to minimise unnecessary re-renders

.NET Developer Intern | VU SOLUTIONS

April 2022 - August 2022, Gulberg Lahore

- Built APIs using MVC architecture for enterprise-level applications using .NET Web API and Microsoft SQL Server
- Strengthened relational database fundamentals through hands-on SQL query optimisation

PROJECTS

NestShield — Multi-tenant SaaS Backend | Self

github.com/mawaisdev/nestshield

- *NestJS · PostgreSQL · Redis · BullMQ · WebSockets · AWS · OpenAI*
- Production-ready multi-tenant SaaS backend starter built in public. Covers auth patterns (refresh token rotation, 2FA, RBAC), background job queues, real-time WebSocket notifications, Redis caching strategies, and OpenAI streaming integrations.

NextAuth Full Implementation | Self

oath-with-next-auth.vercel.app

- Next.js · NextAuth · TypeScript
- Complete NextAuth implementation with 2FA, role-based routing, and best-practice security patterns using Next.js Server Actions.

EDUCATION

Bachelors of Computer Science | University of Engineering and Technology

Lahore, 2023

CERTIFICATIONS

Microsoft Certified: Azure AI Fundamentals | Microsoft

2025

Microsoft Certified: Azure Data Scientist Associate | Microsoft

2025

SKILLS

NestJS, Node.js, TypeScript, PostgreSQL, Redis

Express.js, GraphQL, REST APIs, ElasticSearch, BullMQ, WebSockets, JWT / OAuth, 2FA

AWS S3, CloudFront, AWS RDS, CI/CD, Docker, Git

Next.js, React.js, Strapi

TypeORM, Prisma, SQL
