

USAMA SHAFIQUE

BACKEND & AI-INTEGRATED SOFTWARE ENGINEER

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SUMMARY

Backend Software Engineer experienced in building AI-integrated Node.js systems using NestJS, PostgreSQL, and Docker. Skilled in developing scalable REST APIs, authentication systems, and real-time features with Socket.io. Passionate about using tools like LangChain, FastAPI, and Ollama to bring AI automation into production systems. Dedicated to turning complex ideas into maintainable, high-performance software with clean documentation and quick iteration cycles.

PROFESSIONAL EXPERIENCE

Software Engineer, FBM Solutions (Pvt) Ltd - Remote

Oct 2023 - Sep 2025

- Built and maintained high-performance REST APIs and WebSocket services in NestJS, improving real-time data delivery and client responsiveness.
- Designed and optimized PostgreSQL schemas that reduced query response times and scaled efficiently for high-traffic applications.
- Implemented robust authentication and authorization systems using JWT and bcrypt, strengthening API-level security and session integrity.
- Leveraged Prisma ORM and Docker to streamline backend development, eliminating environment inconsistencies and accelerating deployment cycles.
- Integrated AI-driven features by developing Retrieval-Augmented Generation (RAG) pipelines using Ollama and FastAPI, enabling intelligent automation within backend systems.
- Collaborated with frontend teams on Next.js and React integration, ensuring seamless end-to-end data flow and consistent user experience.

PROJECTS

QR Menu SaaS

Full-stack restaurant management platform featuring role-based dashboards, subscription billing, and dynamic QR menu generation. Designed for scalability and maintainability using Next.js, Express.js, PostgreSQL, and Prisma ORM.

ChatDocs (AI Document Chat)

Developed an AI-driven document chat system enabling users to upload files and interact through natural language. Built RAG (Retrieval-Augmented Generation) pipelines using LangChain, FastAPI, and Ollama for intelligent query responses.

GX Tickets

I contributed to this project as a team member, working on backend development and system integration tasks.

My responsibilities included:

- Developing REST APIs to support ticketing and event workflows
- Working with relational databases to manage event and user data
- Implementing secure authentication mechanisms
- Ensuring backend services supported frontend requirements efficiently
- Participating in team discussions to refine features and technical decisions

This project strengthened my experience working on scalable backend systems within a team environment and reinforced best practices around clean architecture and maintainable code.

QuikTix

I worked on this project as part of a development team, contributing mainly to backend and system-level functionality.

My contributions included:

- Building and maintaining backend APIs for event and ticket management
- Designing and optimizing PostgreSQL database schemas
- Implementing authentication and authorization flows
- Supporting frontend integration through clean and reliable API contracts
- Collaborating with team members to align backend logic with product requirements

This project involved real-world production constraints such as role-based access, data consistency, and deployment considerations, making it a strong example of collaborative, production-focused development.

EDUCATION

Master of Science (MSc) in Artificial Intelligence & Data Science Keele University, United Kingdom	2025 – 2026 (Expected)
Bachelor of Science (BS) in Software Engineering University of Engineering & Technology (UET)	2019 – 2025
Higher Secondary School Certificate (HSSC) Fazaia Inter College	2016 – 2018

ADDITIONAL INFORMATION

- **Languages:** English,
- **Certifications:** Machine Learning for All (University of London — Coursera), Connect and Protect: Networks and Network Security(Google — Coursera).
- **Awards/Activities:** Most Innovative Intern of the Year (2023).