

Muhammad Jahanzeb

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PROFILE

Fullstack engineer with about 3 years of production experience building multi-tenant SaaS platforms, payment integrations, and real-time systems. Backend-focused in NestJS/TypeScript with PostgreSQL schema design and Docker on Azure, building frontends in Next.js and React.

SKILLS

Languages: JavaScript, TypeScript, SQL, HTML5, CSS3

Frameworks & Libraries: Node.js, NestJS, React.js, Next.js, Drizzle ORM, Stripe

Databases: MongoDB, PostgreSQL, Redis

Cloud & DevOps: AWS, Azure Blob Storage, Docker, REST APIs, WebSockets, JWT Authentication

Tools & Platforms: Git, GitHub, JIRA, Figma

EXPERIENCE

Arc Inventador - Fullstack Engineer

Karachi | June, 2026 - Present

- Built core backend modules for Arcian, a **multi-tenant** AI voice agent SaaS platform built on **LiveKit (NestJS, TypeScript, Drizzle ORM, PostgreSQL)**, owning tenant isolation, **RBAC**, and platform-admin access paths.
- Built user invitation and seat management as an explicit state machine (pending_invite to active) with per-plan seat limits enforced at the organization level.
- Designed a Model Catalog with BYOM support, letting customers register private provider credentials alongside platform-managed models in one schema.
- Designed the Model Catalog schema so tenants can register their own LLM/STT/TTS providers alongside platform-managed ones, storing platform rows under a reserved tenant ID.

Interact CX - Software Engineer

Karachi | Oct, 2023 - May, 2026

- Developed a custom proxy tunnel using **Node.js**, integrating **REST APIs** with **JWT** authentication, enabling secure and seamless communication between the company's IVR application and DialogFlow ES.
- Integrated WeChat with NICE inContact using **Node.js** middleware and **REST APIs**, deploying the solution as a **Docker** container on **AWS ECR** for scalable and reliable communication.
- Enhanced and maintained ICX's official website by creating and updating pages for their services to improve user experience and information accessibility.
- Developed a secure and dynamic billing portal for ICX using **Node.js**, **MongoDB**, **jQuery**, and **Bootstrap**, enabling clients to search usage data by multiple fields, view conversations in modals, and switch between subscriptions with seamless navigation.
- Implemented **JWT-based** single-session login, five-attempt lockout with cooldown, tab limits using **Redis**, and auto-refresh for live voice data, enhancing security and near real-time visibility.
- Designed and implemented a scalable data export pipeline using **MongoDB cursor-based streaming** and **Azure Blob Storage**, powered by a **BullMQ/Redis** worker that generated per-day CSVs in a fully memory-efficient, streaming workflow.

PumpJack Dataworks - NodeJS Developer Intern

Karachi | June, 2022 - Sep, 2022

- Created a real-time chat application using **React Native** and **Node.js**, using **Kafka** as a message broker and **WebSockets** for instant message delivery, improving real-time communication capabilities.
- Developed a Kafka Query Builder with a frontend built in **HTML/CSS** and **jQuery**, integrated with a **Node.js**, **Kafka**, **Docker**, and **PostgreSQL** backend system, enabling users to construct and execute database queries effectively for **KSQL**.
- Worked in an **agile** working environment, and collaborated with a team of five.

PROJECTS

FYP- GrowGreen

- Developed multi-sensor devices for air pollution detection and built a backend using **Kafka**, **ELK stack**, **PostgreSQL**, **Redis**, and **Node.js**.
- Created a data pipeline for real-time sensor data analysis and search through the **ELK stack**, enhancing data accessibility and insights.
- Collaborated on intuitive **UI design** and development utilizing **Figma** and **ReactJS**, and produced comprehensive project documentation including **SRS** and **SDS**.

Hotel Reservation App (BookingApp) | MERN (MongoDB, Express, React, Node.js)

- Built a full-stack **MERN** hotel booking app with **React (Router, Context)** and an **Express** and **MongoDB** backend.
- Implemented hotel discovery and search with destination and date range selection, plus filters for price and guests to refine results.
- Implemented room booking with a reservation modal and date-based availability checks to prevent double-booking.

EDUCATION

FAST NUCES, Karachi — Bachelor of Computer Science

Karachi | Aug, 2019 - Aug, 2023