

# Owais Ansari

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## EDUCATION

**Dwarkadas J. Sanghvi College of Engineering, Mumbai**

*Bachelors of Technology in Artificial Intelligence and Data Science*

GPA: 9.4/10.0

*August 2023 – June 2026*

## EXPERIENCE

**Backend Developer at Fyre Gig**

August 2024 – Present


*Mumbai, Maharashtra*

- **Broadcast System Architecture** Designed & implemented a high-throughput real-time messaging system using Apache Kafka & Solace, enabling 10M+ users to receive targeted broadcasts via dynamic topic filtering. Achieved **70%** reduction in database insertions through event streaming optimization, while implementing TTL (time-to-live) policies and persistent log compaction to ensure 24/7 message durability.
- **Real-Time Analytics Pipeline** Orchestrated a **CDC-powered data synchronization framework** using **Debezium + Kafka**, enabling sub-second replication of records **1M+** from MySQL to ClickHouse. Achieved **99.9% data consistency** while supporting real-time BI dashboards for loan risk analysis.
- **Geospatial API Optimization** Revamped map visualization APIs to dynamically aggregate organizational member counts using **geospatial sharding**. Reduced query latency by **50%** (from 2.1s to 1.05s) through R-tree indexing and bounding box optimizations in PostGIS.
- **FinTech Platform Development** Led end-to-end backend development of a **BNPL (Buy Now Pay Later)** platform. Architected **AWS-based microservices** handling \$10k+ monthly transactions.

## PROJECTS

**Payment Gateway System Prototype** | *Java, Spring Boot, Kafka, Redis, PostgreSQL, Docker, Kubernetes*

- Developed a distributed, real-time **payment gateway system**, capable of handling up to **1,000 transactions per second** with microservices for transaction processing, fraud detection, and reconciliation.
- Implemented **event-driven architecture** using Kafka, reducing transaction latency by **30%**.
- Optimized performance with **PostgreSQL** for persistence and **Redis** for caching, improving response time by **40%**.
- Deployed microservices using **Docker** and **Kubernetes**, ensuring **seamless scalability** and efficient handling of traffic spikes.
- Integrated a **fraud detection module**, increasing system security by **20%**.

**Synchronized Video Dubbing using AI** | *NLP, Flask API, Node.js*  [click](#)

September 2023 – Present

- Managed backend integration for an AI-based video dubbing solution using **Flask API** for model handling and **Node.js** for backend services.
- Achieved **80% reduction** in manual dubbing efforts and **60% faster** turnaround time.
- Enabled support for **20+ Indian languages** and **10 international languages**.
- Ensured **lip sync** and high-quality audio in the synchronized dubbing process.

## TECHNICAL SKILLS

**Languages:** C, Java, Python, SQL

**Backend Technologies:** Node.js, Spring Boot, RESTful APIs, Apache Kafka, Solace Pub/Sub

**Web Technologies:** HTML, CSS, JavaScript, Express.js

**Databases:** MySQL, PostgreSQL, MongoDB

**Cloud & Miscellaneous:** Docker, Git, Swagger, Kubernetes AWS, FCM, PowerBI, Tableau

## ACHIEVEMENT

**Resolved 1000+ problems** across various platforms like [Leetcode \(1662 max\)](#), [Codeforces](#) and GeeksforGeeks.

## RELEVANT COURSEWORK

**Computer Science:** Data Structures and Algorithms, Databases, Operating Systems, Computer Networks, Data Mining and Analytics.

**Mathematics:** Discrete Mathematics, Probability and Statistics, Number Theory, Linear Algebra.

## HONORS & AWARDS

**JP Morgan External Engagement Program**

February 2024 - Present

*Dwarkadas J. Sanghvi College of Engineering*

*Maharashtra*

- **Chosen as one of 80 participants from the college** for this prestigious program in the software field.
- Engaged in professional development activities and networking opportunities.