Yashwant Dwala

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Professional Summary

Backend Software Engineer with 2.5+ years of experience building scalable, production-grade microservices. Strong experience in Kafka-based systems, SQL optimization, and real-time IoT data pipelines.

Experience

Jio Platforms Limited — Jul 2023 – Present
Jio Krishi - Backend Developer — *Gurgaon Haryana*

- Modernized high-complexity legacy modules by rewriting them in **Golang**, resulting in a **20%** improvement in efficiency and maintainability
- Enabled non-technical stakeholders to interact with backend APIs by developing a custom **MCP server** using **OpenWebUI and FastMCP**
- Built scalable real-time IoT ingestion pipelines to handle high-velocity data streams, achieving **90%+** end-to-end data consistency
- Enhanced API performance by identifying and optimizing inefficient SQL queries, reducing latency by **45% (1.6s → 900ms)**
- Improved system resilience by designing a fault-tolerant microservice to decouple **Kafka consumers and event processing** using **Unix sockets**, increasing reliability by **30%**
- Automated crop onboarding by designing an Excel-based ingestion script, eliminating manual code changes and reducing operational overhead

Projects

DocQuerryAI — **Github**
Tech Stack: *FAISS, Docker-compose, ollama, langchain, Sentence-transformers, VectorDB*

- Implemented a Retrieval-Augmented Generation (RAG) pipeline using FAISS, LangChain, Ollama (LLaMA-3), and Sentence-Transformers (all-MiniLM-L6-v2) to answer queries grounded in user-provided documents.
- Evaluated retrieval quality to ensure relevant document chunks were successfully retrieved before generation.
- Containerized the entire system using Docker Compose, enabling reproducible local deployment of VectorDB, LLM, and evaluation pipeline.

Instagram Clone — **Github**
Tech Stack: *React, Materialize, MongoDB, Cloudinary, Node.js, Express*

- Built a full-stack social platform with authentication, posts, comments, and CRUD features
- Designed RESTful APIs using Node.js and Express with MongoDB
- Integrated Cloudinary for image storage and optimized UI using React

Skills

- **Languages:** Go, Python, C++, JavaScript
- **Backend & Frameworks:** Golang, Django, Node.js, Express
- **Databases:** PostgreSQL, MongoDB, Redis, Cassandra, Elasticsearch
- **Systems & Tools:** Linux, Kafka, Docker, AWS EC2, Git, Postman
- **Frontend:** React, Redux

Education

Indian Institute of Technology (ISM), Dhanbad — **2019 – 2023**
B.Tech in Electronics and Communication Engineering

Certifications

- Introduction to Data Structures Algorithms in Java — **Certificate**
- Java: Database Integration with JDBC — **Certificate**
- Learning Linux Command Line — **Certificate**