

Afraim Joseph

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Skills

Languages & Frameworks: Python, FastAPI, LangChain, LangGraph

Databases & Storage: PostgreSQL, MSSQL, MongoDB, Redis, Qdrant, Elasticsearch, SQL Optimization

AI/ML & LLM Systems: RAG pipelines (Graph, Agentic), Agentic AI, MCP (Model Context Protocol), NLP, Prompt Engineering, Open-source LLMs (Qwen, Gemma), HuggingFace, RAGAS, Azure Document Intelligence

Message Queues & Async: RabbitMQ, Celery, Async Processing

Cloud & DevOps: Azure (OpenAI, Functions, Graph API, Document Intelligence), Docker, CI/CD, GitHub Actions

APIs & Integration: REST APIs, Webhooks, WebSockets, WhatsApp Business API, Oracle Fusion Cloud, Whisper API

Experience

Software Engineer AI/ML, Gapblue Software Labs Pvt Ltd – Kochi, IN

Oct 2022 – Present

- Achieved 45% faster data retrieval compared to manual SQL writing by building a text-to-SQL NLP system (LangChain prompt-engineered LLMs) processing 4,000+ queries monthly across 10+ business analysts for PostgreSQL and MSSQL
- Implemented a containerized retrieval layer (FastAPI, Qdrant, Redis) with vector search and caching that achieves sub-2s latency on 25GB+ document corpus while reducing context window requirements by half.
- Built a multi-agent orchestration system (LangGraph, Azure, Whisper) that transcribes meetings via Graph APIs and creates preliminary architecture docs, BRDs, tech specs, test plans, and sprint planning artifacts.
- Maintained 99% uptime processing high-volume uploads by implementing fault-tolerant pipelines (RabbitMQ, async processing) with retry mechanisms and dead-letter queues, reducing queue time by 33% across file sizes.
- Reduced manual data access time by 35% by developing an AI WhatsApp bot (FastAPI, NLP, MCP agents, PostgreSQL) serving 60+ stakeholders with on-demand construction metric queries and updates.
- Developed AI resume ranking platform (Elasticsearch, LangGraph) that automates screening of 200,000+ candidates eliminating manual first-pass screening, with multi-criteria evaluation and instant recruiter notifications.
- Accelerated construction tender approval cycles by 38% by automating document compliance processing (OCR, LLMs, RAGAS) for 100+ tenders monthly, handling up to 30GB+ per tender, integrated with Oracle Fusion Cloud workflows.

Projects

Profiler (FastAPI, Elasticsearch, LangGraph, LLMs, PostgreSQL, Docker)

- Achieved 48% reduction in manual shortlisting by building an AI ranking system processing 200,000+ resumes. Implemented multi-criteria evaluation (LangGraph, Elasticsearch) enabling automated screening at scale.
- Improved matching accuracy by 42% by implementing a multi-criteria scoring system (LLMs) that extracts job requirements and evaluates candidates across skills, experience, and qualifications for objective ranking.
- Automated recruiter workflows with instant notifications (WhatsApp templates, Azure email) delivering candidate status and ranking updates.

Compliance Validator (FastAPI, Elasticsearch, Oracle Database, LLMs, Celery, RAGAS)

- Reduced manual verification by 38% by automating compliance checks for legal and project documents integrated with Oracle Fusion Cloud. Implemented scheduled monitoring (Celery Beats) for continuous validation workflows.
- Extracted and verified document data using OCR paired with LLMs for correctness validation. Developed automated pipelines processing contracts and certificates without manual data entry.
- Automated tender disqualification by implementing a validation framework (RAGAS) that scores supplier questionnaires, verifies document requirements, and generates detailed compliance reports. Integrated with Oracle Fusion Cloud to streamline construction tender evaluation workflows.

Education

Mar Baselios Christian College of Engineering and Technology

Bachelor of Technology (Computer Science & Engineering)

Kerala, IN

Aug 2022