

A.A. MOHAMMED MISYAATH

Email: mmisyaath@gmail.com | Phone: +971 54 574 1477 | Location: Dubai, UAE

PROFESSIONAL SUMMARY

Highly accomplished Senior AI & Software Engineer with 8+ years of experience architecting resilient, production-grade distributed systems and advanced AI-driven solutions. Possesses a deep foundational understanding of Machine Learning and Transformer architectures. Hands-on expertise in the full LLMOps lifecycle, including post-training alignments (Fine-Tuning, LORA, QLORA, RL techniques), rigorous LLM evaluation frameworks (like RAGAS), and optimizing inference performance via vLLM. Specializes in orchestrating high-performance agentic workflows using LangGraph, securely deploying open-source LLMs, and leveraging platforms like Azure AI Foundry to drive system-level architectural strategy and enterprise AI adoption.

SKILLS AND EXPERTISE

- **AI & LLM Engineering:** Deep Machine Learning, Transformer Architecture, PyTorch, Post-Training (Fine-Tuning, LORA, QLORA, RL Techniques), Model Optimization (Quantization, vLLM Inference), Azure AI Foundry, Advanced Prompting, LLMOps
- **Agentic AI & Retrieval:** Agent Orchestration (LangGraph), RAG Pipeline Optimization, Document Processing (Docling), Embeddings, Retrieval Evaluation (RAGAS), Hugging Face, LangChain, Qdrant Vector Database.
- **Languages & Frameworks:** Python (Expert), FastAPI, TypeScript (Expert), NestJS, Node.js, JavaScript.
- **Cloud & Infrastructure:** AWS (Certified DevOps Pro/Solutions Architect), GPU Compute Environments, Docker, Kubernetes, CI/CD, RabbitMQ.
- **Architecture & Backend:** System Design (Expert), Domain-Driven Design (DDD), Microservices, CQRS, Event-Driven Architecture, REST/GraphQL.
- **Databases:** TypeORM, Postgres, MySQL, MongoDB, Redis, DynamoDB.

WORK EXPERIENCE

Senior AI & Software Engineer | Gapstars

November 2024 - Present

- Designing and implementing scalable Python backend services using FastAPI to power AI-driven interactions, real-time HTTP streaming (SSE), and secure API communications.
- Leading the full LLMOps pipeline, applying post-training methods such as Fine-Tuning, LORA, QLORA, and RL techniques to align open-source models with complex business logic.
- Deploying open-source LLMs within secure GPU cloud environments, utilizing vLLM for high-throughput inference and quantization techniques to minimize latency and optimize resource utilization.
- Orchestrating sophisticated agentic workflows using LangGraph and LangChain. Building robust RAG pipelines by processing complex documents with Docling, generating high-quality embeddings, and managing retrieval via Qdrant vector database, continuously validated through RAGAS evaluation.

- Driving core architectural decisions and the strategic digital transformation of legacy monolithic modules into highly decoupled, event-driven microservices utilizing Domain-Driven Design (DDD).
- Enforcing rigorous coding standards, API security, and TDD practices through intensive daily code reviews, ensuring the codebase stays clean while the product moves fast.

Senior Software Engineer | Adventus.io

March 2023 - November 2024

- Built efficient, reusable, and heavily tested modules utilizing modern backend frameworks (including Python and NestJS), actively evolving architectures that securely handle high-traffic data streams in production.
- Collaborated closely with cross-functional teams to solve complex architectural challenges by introducing Event-Driven patterns, ensuring stability across diverse microservice environments.
- Designed scalable systems utilizing AWS services and integrated diverse storage solutions including MySQL, TypeORM, ElasticSearch, and DynamoDB.

Senior Software Engineer | Raviga Group

July 2019 - March 2023

- Developed efficient, testable, and reusable backend modules and frontend Vue.js components.
- Resolved complex performance issues and architectural hurdles in high-traffic applications.
- Integrated and optimized relational data storage solutions using MySQL.

Senior Software Engineer | EFutures Private Limited

September 2018 - July 2019

- Led the entire web application development life cycle, from concept to post-launch support.
- Integrated user-facing elements and built efficient, reusable backend modules.
- Utilized and contributed to backend data services APIs.

EDUCATION & CERTIFICATIONS

- BSc in Electronics and Automation Technologies - University of Colombo
- DeepLearning.AI Certifications: Retrieval Augmented Generation (RAG), Agentic AI, Transformers in Practice, Fast & Efficient LLM Inference with VLLM
- AWS Certified DevOps Engineer - Professional
- AWS Certified Solutions Architect - Associate