

MUHAMMAD ARHAAM ALI

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PROFESSIONAL SUMMARY

Senior AI Solutions Architect specializing in **Generative AI**, **Large Language Models (LLMs)**, and **Agentic Workflows**. Expert in designing high-scale **RAG (Retrieval-Augmented Generation)** pipelines and autonomous multi-agent systems. Certified in Prompt Engineering and Huawei AI infrastructure.

CERTIFICATIONS

- **Prompt Engineering for Generative AI** | Certified Expertise in Advanced Prompting & Model Tuning.
- **HCIA-AI (Huawei Certified ICT Associate - Artificial Intelligence)** | Full-stack AI Solution & ML.

TECHNICAL MATRIX

- **Generative AI:** Prompt Engineering (Chain-of-Thought, Few-shot), Llama 3, Mistral, OpenAI API.
- **AI Orchestration:** LangChain, CrewAI, LangGraph, AutoGen, Multi-Agent Swarms.
- **Vector Ecosystem:** Pinecone, Milvus, ChromaDB, Semantic/Hybrid Search.
- **Backend & Cloud:** Huawei Cloud AI, AWS Bedrock, Python (FastAPI), Docker, Kubernetes.
- **Frontend:** Next.js 14, React, Tailwind CSS, WebSockets for AI Streaming.

PROFESSIONAL EXPERIENCE

Senior AI Architect <i>Enterprise AI Solutions</i>	Jan 2024 – Present Pakpattan, PK
<ul style="list-style-type: none">• Architected a Production RAG pipeline using LlamaIndex and Pinecone, reducing latency by 40%.• Optimized AI outputs using advanced Prompt Engineering techniques, increasing accuracy by 30%.• Developed autonomous agent swarms with CrewAI to automate complex engineering workflows.	

AI Developer <i>Tech Innovators Inc.</i>	June 2022 – Dec 2023 Remote
<ul style="list-style-type: none">• Integrated LLMs into legacy ERP systems, increasing data retrieval accuracy by 25%.• Built real-time AI monitoring dashboards using WebSockets and FastAPI.	

KEY PROJECTS

Project Alpha: Neural RAG Engine <i>Python, Pinecone, GPT-4o</i>
<ul style="list-style-type: none">• Built a semantic search engine for 1M+ document chunks with hybrid reranking.
Agentic Swarm Automation <i>LangGraph, CrewAI, Docker</i>
<ul style="list-style-type: none">• Orchestrated autonomous agents for bug detection and automated documentation.

EDUCATION

Bachelor of Software Engineering <i>Virtual University of Pakistan</i>	Graduated 2023
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