

Umair Arshad



Chief Technology Officer · AI Engineering Leader · Solutions Architect

Engineering leader and hands-on architect building production-grade AI — agents, RAG, real-time voice, and cloud-native systems — from strategy to delivery.

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SUMMARY

Chief Technology Officer with 6+ years leading engineering teams, defining technology strategy, and delivering AI-powered software across healthcare, enterprise SaaS, fintech, mobile, and cloud. Lead a **30-person** multidisciplinary engineering organization — AI, backend, frontend, mobile, DevOps, QA, and UI/UX — while remaining a deeply hands-on architect in Generative AI, LLM agents, RAG, real-time voice AI, and scalable cloud-native infrastructure. Delivered **40+ commercial products** from concept to production.

CORE SKILLS

Leadership

Engineering Management Technology Strategy Software Architecture Hiring & Team Leadership Product Strategy
Stakeholder Mgmt Mentoring Agile / Scrum Roadmapping

AI & ML

Generative AI Agentic AI Multi-Agent LLM Agents Prompt Engineering RAG Embeddings Vector DBs (Qdrant)
Tool Calling MCP OpenAI Claude Gemini Ollama

Voice AI

LiveKit Deepgram Whisper ElevenLabs SIP Automation On-device

Backend

Python FastAPI Node.js Express NestJS .NET WebSockets

Frontend

React Next.js TypeScript Redux Tailwind

Mobile

React Native Kotlin / Java Swift Android / iOS

Cloud / Data

AWS Docker CI/CD Vercel PostgreSQL MongoDB Redis

EXPERIENCE

TechloSet Solutions

May 2021 – Present · Faisalabad, Pakistan

Chief Technology Officer · Dec 2022 – Present

- Lead a **30-person** engineering organization across AI, backend, frontend, mobile, DevOps, QA, and UI/UX; own hiring, mentoring, and performance management.
- Define company-wide technology strategy and roadmap with executive leadership; set engineering standards, CI/CD, and architecture governance, and drove AI adoption.
- Architected enterprise AI platforms end to end — agentic systems, RAG, real-time voice at sub-second (<1s) latency, and on-device mobile AI — across web, cloud, and mobile.
- Delivered **40+ commercial products** across healthcare, SaaS, fintech, mobile, and automation while remaining hands-on in architecture and code.

Principal Engineer · Jun – Dec 2022 · Senior MERN Stack Developer · May 2021 – Jun 2022

- Architected scalable solutions (React, Node.js, MongoDB); led cross-functional teams and established DevOps and cloud-deployment practices.

The Address Pakistan

Jul 2018 – Aug 2020 · Pakistan

IT Executive

- Managed IT operations and delivered internal web and technical solutions.

IT Empire

Feb 2011 – Apr 2013 · Pakistan

Web Developer

- Delivered client websites and web applications across multiple business domains.

SELECTED PROJECTS

SynaCare HMS — Enterprise AI Hospital Management Platform. Multi-tenant SaaS: 82 API modules, 14 AI engines, FHIR R4 / HL7v2, HIPAA-aware, mobile — cutting clinical & admin workflow overhead. **FastAPI · React · PostgreSQL · OpenAI**

FrontMate — On-Device AI Receptionist. Local LLM + STT + neural TTS + lip-synced 3D avatar; automates reception with zero cloud AI cost. **React Native · llama.rn · whisper.rn**

Talos AI — Autonomous Multi-Agent System. 13 tools across 7 channels and 5 LLM providers, automating knowledge work. **Python · Multi-agent · Tool-calling**

Voice Agentic Platform — Real-Time Voice AI. Routed voice agents with RAG and sub-second latency; automates call handling. **FastAPI · LiveKit · Qdrant · Deepgram**

FDRANA — Power-Distribution Analysis Platform. WAPDA HT/LT feeder modeling and radial load-flow with grid visualizations. **Next.js · React · Data-viz**

EDUCATION

BS, Computer Science

Government College University, Faisalabad

F.Sc. Pre-Engineering

Punjab Group of Colleges

LANGUAGES

English · Fluent (professional)

Urdu · Native **Hindi** · Conversational **Punjabi** · Fluent