

MOHAMMED ZAID SHAIKH

Generative AI Engineer | LLM Systems | AI-Powered Full-Stack

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OBJECTIVE

Software engineer with 9+ years of enterprise product experience, now building at the intersection of LLMs and production-grade applications. Hands-on with RAG pipelines, LLM agents, and Generative AI systems. Brings a rare combination of deep full-stack engineering and modern AI skills. able to design, build, and ship AI products end-to-end.

AI & GENERATIVE AI SKILLS

LLM & Gen AI: LangChain, LangGraph, OpenAI API (GPT-4), Prompt Engineering, RAG, FAISS, ChromaDB

Agentic AI: LangChain Agents, Tool Calling, ReAct Framework, Memory Systems, LangGraph Workflows

ML & Deep Learning: Python, scikit-learn, TensorFlow, PyTorch, Hugging Face Transformers, NLP

Data & Vector DBs: Pandas, NumPy, FAISS, ChromaDB, SQL, EDA, Feature Engineering

AI Deployment: FastAPI, REST APIs, Streamlit, Docker, Azure, AWS

ENGINEERING SKILLS

Frontend: ReactJS, Redux, TypeScript, JavaScript (ES6+), HTML5, CSS3, SASS, Tailwind

Data Visualisation: Highcharts, D3.js, Recharts

DevOps & Testing: Azure DevOps, GitLab CI/CD, Docker, Firebase, Google Cloud, Jest, Selenium

Architecture: REST APIs, GraphQL, Design Systems, Component Libraries, PWA, WCAG Accessibility

GENERATIVE AI PROJECTS

DocuMind – RAG Document Intelligence System *Python, LangChain, OpenAI GPT-4, FAISS, FastAPI, Streamlit*
Retrieval-Augmented Generation pipeline for multi-document Q&A

- Built an end-to-end RAG pipeline that ingests PDFs, chunks and embeds them with OpenAI embeddings, stores in FAISS, and retrieves context-aware answers via GPT-4.
- Implemented conversational memory so follow-up questions retain prior context across a session without re-querying the full corpus.
- Exposed the pipeline as a FastAPI service with a Streamlit frontend, reducing average answer latency to under 2 seconds.

AgentFlow – Autonomous LLM Agent with Tool Calling *Python, LangChain Agents, LangGraph, OpenAI*
Multi-step reasoning agent that plans and executes tasks using real-world tools

- Designed a ReAct-pattern agent that autonomously selects from web search, calculator, and Wikipedia tools to answer complex, multi-hop queries.
- Rebuilt the agent in LangGraph, modelling the reasoning loop as an explicit state machine improved observability and made it easy to add conditional branches and human-in-the-loop checkpoints.
- Integrated memory persistence so the agent retains facts across conversation turns without bloating the context window.

SentimentStream – NLP Sentiment Analysis API *Python, Hugging Face Transformers, FastAPI, scikit-learn, Docker*

Fine-tuned transformer model for product review sentiment classification

- Fine-tuned a DistilBERT model on a 25,000-sample product review dataset, achieving 91.4% accuracy vs 83.2% for the baseline TF-IDF + logistic regression model.
- Wrapped the model in a FastAPI service containerised with Docker;
- Built a batch inference endpoint for processing CSV uploads, cutting analysis time for 10,000 reviews from 40 minutes (manual) to under 90 seconds.

PROFESSIONAL EXPERIENCE

Lead Software Engineer – MOBADRAH CONSULTANCY *Mar 2018 – Present*

- Led a cross-functional frontend team delivering enterprise-grade React/Redux SaaS products for KSA and UAE enterprise clients, including the NEOM SAW Award & Evaluation System.
- Improved UI performance by 25% through code-splitting, lazy loading, and Redux state normalisation; reduced bundle size by 35%.
- Conducted code reviews, mentored 4 junior engineers, and established frontend architecture patterns adopted across 3 concurrent projects.
- Integrating LLM-powered features (OpenAI API) into existing SaaS dashboards — smart search, auto-generated KPI summaries, and natural-language filters.
- Delivered B2B platforms for KPI tracking, telecom onboarding, and award management using ReactJS, Redux, and TypeScript.
- Designed and standardised a component library that accelerated UI delivery by 40% across 5 projects.
- Built AMER ITSM a high-volume ticket management platform handling 50,000+ tickets/month with real-time updates via WebSockets.

Software Engineer – CAPILLARY TECHNOLOGIES *Nov 2016 – Feb 2018*

- Delivered e-commerce and healthcare SaaS applications with React-based frontends, integrating REST APIs and third-party analytics dashboards.
- Developed reusable UI components used across 3 product lines, reducing per-feature dev time by 20%.

KEY PRODUCTS DELIVERED

- **NEOM SAW** – Award Nomination & Evaluation System
ReactJS, Redux-Saga, TypeScript, Highcharts, MySQL, Firebase
- **HENA App** – Real-time Designer Booking PWA
ReactJS, TypeScript, PWA, WCAG
- **AMER ITSM** – High-volume Ticket Management Platform
ReactJS, Redux, Jest, Selenium, Angular Material, MySQL

EDUCATION

PG Diploma *2015 – 2016*

CDAC Mumbai

B.E. in Electronics & Telecommunication *2011 – 2015*

Nagpur University

CERTIFICATIONS

- **Microsoft Azure** – AZ-900, AZ-104
- **PMP** – Project Management Professional