

# Syed Mozamil Shah

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## Summary

AI Engineer skilled in building intelligent agents and LLM-powered systems using LangGraph, RAG, and prompt engineering. Experienced in developing cross-platform apps (MERN, Flutter), automating workflows with n8n, and integrating NLP pipelines with vector databases. Passionate about solving real-world problems through smart automation, strong backend systems, and seamless user experiences.

## Skills

**Programming Languages:** Python | JavaScript | Dart | C++

**Frameworks & Libraries:** React | Node.js | Express | Flutter | LangChain | LangGraph | RAG | FastAPI | Pydantic

**Databases:** MongoDB | Firebase Firestore | Oracle | ChromaDB | Qdrant | Mem0

**Tools & Technologies:** REST APIs | Web Scraping | Git & Github | Agile Methodologies | Docker | n8n

## Education

**Bachelor of Science in Computer Science, Air University Islamabad**

**2022-2026**

**Courses:** PF, OOP, Data Structures, Design and Analysis of Algorithms, Web Development, Mobile Computing, Database Systems

## Projects

**QalbCare – Islamic Emotional Therapy Multi Agent Orchestration** | [Github](#)

**LangGraph | ChromaDB | Sentence Transformer | FastAPI | Gemini | Vapi | Flutter | Firebase**

- Developed Psychological therapy agent that detects user mood with 90%+ accuracy and delivers over 150+ tailored responses grounded in Quran, Hadith, Seerah, and Islamic CBT using a hybrid RAG system.
- Integrated a real-time voice calling agent for therapy sessions; engineered Muhasiba functionality used by 75% test users for daily self-reflection and QalbState to assess the spiritual state of the heart and trigger a personalized 7-day healing journey powered by Firebase for secure storage and emotional tracking.

**HireyWirey – AI-Powered Resume & Career Optimization Agent** | [Github](#)

**LangGraph | FastAPI | MERN | Web Scraping | Gemini**

- Built a full-stack job portal with recruiter dashboards for posting and managing jobs; implemented an AI-powered feature that auto-selects the top 5 candidates per job based on ATS scores and resume–job description relevance.
- Enabled an intelligent job seeker workflow that analyzes resumes, calculates ATS scores (75%+ accuracy), identifies skill gaps, and generates personalized learning roadmaps with 2–3 project suggestions; also enhances resumes for ATS compliance and recommends best-fit jobs along with tailored interview question preparation based on the job description.

**Doctra – AI-Based Prescription Support System** | [Github](#)

**LangGraph | React | Custom Inference Engine**

- Crafted an AI-powered prescription assistant capable of interpreting 30+ symptom types and generating context-aware medical suggestions using a custom inference engine with 500+ symptom–medicine mappings.
- Designed and evaluated 20+ multi-turn dialogue flows simulating patient interactions to validate prescription accuracy, safety, and completeness in AI-guided medical support.

## Certifications

**Python for Data Science & AI Development** | IBM

**Jan 2025**

Functions, Classes and Objects, Exception Handling, File Handling, Pandas, Numpy

**Flutter Mobile App Development** | AUCIS

**May 2024**

UI Design Principles, Stateless & Stateful widgets, Firebase, Sqflite

**Databases and SQL for Data Science** | IBM

**Feb 2025**

Data Science, DB2, Jupyter Notebook, Python, Relational Database, SQL

## Achievements & Awards

**2nd Place Winner - PenCode Coding Competition** | PenCode

**May 2025**

Write complete MERN Stack application using pen and paper in under 2 hours