

Mohammad Maaz Khan

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PROFESSIONAL SUMMARY

AI & Full Stack Engineer with **over 2+ years** of experience building real-time AI systems across healthcare, education, robotics, and startup products. Adept in engineering voice AI, agentic systems, RAG, and full-stack AI applications, with work spanning multilingual patient triage, multi-agent collaboration platforms, and low-latency edge AI. Pioneered solutions to reputable brands Cleveland Clinic Abu Dhabi, ADNOC, ADEK, GITEX North Star, and Khalifa Fund's MZN Hub, and led teams to top 24 semi-finalists stage in Dubai Chamber's Create Apps Championship 2025 from more than 4,700 global entries.

PROFESSIONAL SKILLS

- Applied AI Engineering
- Agentic AI & Multi-Agent Systems
- Conversational AI & Voice Agents
- Retrieval-Augmented Generation (RAG)
- LLM Application Architecture
- Real-Time AI Systems Design
- Full-Stack Product Development
- API, Cloud & Workflow Integration

PROFESSIONAL EXPERIENCE

PRISM

Oct 2025 – PRESENT

Lead AI Engineer

- Architected a multilingual voice-based patient triage system using OpenAI Realtime GPT-4o and a supervisor-agent framework for symptom intake, appointment booking, and call-center routing.
- Built a real-time voice AI workflow linking conversational intake, agent decision logic, and downstream actions to improve the healthcare support experience.
- Designed a multi-agent orchestration model separating supervision, reasoning, and task execution to better suit safety-conscious healthcare use cases.
- Integrated scheduling and routing into the triage flow, connecting AI assessment with practical clinical and administrative follow-through.
- Positioned the product for potential implementation discussions with Cleveland Clinic Abu Dhabi through a research-backed, demo-ready solution.
- Lead Prism to Top 24 semi-finalist recognition in the Dubai Chamber Create Apps Championship from 4,700+ global entries.

WEEAVE

Mar 2025 – PRESENT

Lead AI Engineer

- Designed a mobile collaboration platform enabling multiple humans and AI agents to interact in shared real-time sessions.
- Developed persistent context-management architecture to preserve continuity across multi-user conversations.
- Solved dialogue-state tracking and coreference-resolution challenges to improve multi-party conversation flow and clarity.
- Led the AI architecture for a platform centered on real-time human-agent collaboration.
- Strengthened startup credibility through MZN Hub's Khalifa Fund cohort, an INSEAD research partnership spanning 200+ startups.

OTHER EXPERIENCES & Contracts:

- ADEK** – **AI Agents Curriculum, AI Developer** (Apr 2026 - Jun 2026).
- ADEK** – **PISA Charter Schools, AI Instructor** (Mar 2025 - Jun 2025).
- ADNOC** – **ADNOC Employee Training Program, AI Mentor** (Dec 2024).

RELEVANT PROJECTS

- **ADNOC 3D Spatial AI Twin – Applied AI Engineering (Apr 2026) [3-month Contract]:** Engineered an interactive 3D Gaussian Splat platform with AI-powered hotspots for real-time industrial asset maintenance guidance, built with React 19, Three.js, and Claude selected for ADNOC's invitation-only science fair, June 2026
- **RMC Labs Voice Robot – AI Voice Pipeline Engineering (Oct 2025) [1-month Contract]:** Engineered an offline voice stack for an RMC Labs Raspberry Pi 5 robot showcased at GITEX North Star 2025, integrating ASR, LLM, and TTS components to achieve sub-500ms latency and improve turn-taking, prosody, and conversational flow in an edge AI system.
- **Agentic AI Systems – Applied AI Engineering (Mar 2025):** Designed and implemented five advanced retrieval architectures, including Self-RAG, Corrective RAG, Adaptive RAG, Agentic RAG, and Multimodal RAG, alongside LangGraph-based multi-agent workflows with tool use, web retrieval, reflection loops, and collaborative orchestration.
- **Systems Programming & Algorithms – Software Engineering (Jul 2024):** Delivered four core systems projects during software engineering training, including a Unix shell replica, dining philosophers solution, 3D ray-casting engine, and dual-stack sorting algorithm, demonstrating strength in process management, synchronization, deadlock prevention, graphics, and algorithm optimization.

EDUCATION & PROFESSIONAL DEVELOPMENT

Diploma in Software Engineering & Applied AI.

42 Abu Dhabi School. (Abu Dhabi, UAE).

Bachelor of Computer Applications. (CGPA: 8.72 / 10.0)

Vivekananda Institute of Professional Studies (VIPS). (Delhi, India).

OTHER INFORMATION

Technical Proficiencies & Skills:

Programming: Python, C, C++, TypeScript, NodeJS

Web Dev: React, NextJS, Three.js, @react-three/fiber, PostgreSQL, Supabase

Infrastructure: Docker, FastAPI, REST APIs, Git, CI/CD

AI/ML Tools: LangChain, LangGraph, OpenAI SDK, Anthropic SDK

NLP/Speech Tools: Whisper, OpenAI TTS, embedding models (OpenAI, Cohere), vector databases (Pinecone, ChromaDB)

Awards & Achievements:

Speaker - CCAD 2nd Annual Nursing Conference (Nov 2025).

1st Place Winner - Cleveland Clinic Abu Dhabi AI Hackathon (Oct 2025).

2nd Place Winner - Battle of Houses Coding Competition (Feb 2025).

Student Recognition Award - 42 Abu Dhabi Excellence Program (Jan 2025).

Affiliations:

Board Member - AI & Machine Learning Club, 42 Abu Dhabi (Nov 2025 – Present).

Member - Coding Competition Club, Abu Dhabi (Aug 2024 – Aug 2025).