

Mahaboobsab (Sahil) Makandar

AI Solutions Engineer | Agentic AI, RAG and Full Stack Delivery

📍 Goa, India (open to remote, worldwide)

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SUMMARY

AI Solutions Engineer with close to four years building production AI systems: agentic workflows, RAG chatbots, and automation APIs on Azure and AWS. A jack of all trades who takes a build from the first design call to a live deployment, picks up new tools quickly, and stays curious enough to solve whatever a problem needs. Just as comfortable on the consulting side, turning what a client actually wants into something that ships.

SKILLS

AI and Agents: Agentic AI, Multi-agent Orchestration, LangGraph, LangChain, Semantic Kernel, AutoGen, Microsoft Agent Framework, LlamaIndex, RAG, MCP (Model Context Protocol) servers, A2A, RASA CALM, Dialogflow CX, Copilot Studio, Bot Framework

LLMs and APIs: Anthropic Claude API, Azure OpenAI, OpenAI API, Gemini API, Hugging Face, fine-tuning, prompt engineering, function calling, structured outputs

Cloud and MLOps: Azure AI Foundry, Azure AI Search, Azure Container Apps, Azure Document Intelligence, Azure Key Vault, AWS Lambda, AWS Bedrock, Docker, Kubernetes, GitHub Actions, Azure DevOps, model monitoring and governance

Languages: Python, C#, JavaScript/TypeScript, Java, SQL, C++

Backend and Web: FastAPI, Flask, REST, GraphQL, React, Next.js, Vite, Tailwind CSS, Streamlit, Power Apps, Power Automate

Data and Vector Stores: PostgreSQL (pgvector), Azure SQL, MySQL, Firebase, Pinecone, FAISS

Integrations: Microsoft Graph API, Dynamics 365, Twilio, WhatsApp/Meta Business API, Sumsub, Ddidit, Azure Communication Services

EXPERIENCE

AI Solutions Engineer, MGT

Remote (US) | Apr 2026 to Present

- Sole engineer building MGT's K-5 curriculum development platform end to end, from design through production (see Projects).
- Bridge the consulting and delivery sides, turning client requirements into shipped AI systems and advising on adoption.
- Own architecture, deployment, and monitoring on Azure, moving quickly from prototype to production.
- Build multi-step LangGraph pipelines with the Claude API that keep generated curriculum aligned to state standards while staying easy for the writing team to edit and extend.

Senior Software Consultant, Botangelos LLP

Remote | Oct 2025 to Apr 2026

- Led AI solution delivery end to end, from the first client conversation through model deployment and lifecycle management on Azure AI Foundry.
- Partnered with clients to design enterprise AI roadmaps and agent architecture, keeping every solution in line with their business goals and compliance requirements.
- Trained and supported interns and other engineers, bringing them up to speed on the team's AI and agent stack.
- Set delivery standards for conversational AI and agent orchestration, and reviewed work across projects to keep quality and consistency high.

Senior Software Engineer, Botangelos LLP

Remote | Oct 2024 to Oct 2025

- Built AI agents, RAG chatbots, and automation APIs with Azure OpenAI, Semantic Kernel, LangChain, AutoGen, and Bot Framework, with monitoring and governance built in from the start.
- Designed an email automation pipeline that paired OCR with Gemini to pull clean, structured data out of unstructured inboxes.
- Deployed scalable backend infrastructure with MCP and A2A integrations for enterprise-grade reliability.

Chatbot Developer, Dewiride Technologies Pvt. Ltd.

Remote | Sep 2022 to Sep 2024

- Delivered more than 15 chatbots across RASA, Dialogflow, AWS Lex, and Microsoft Copilot Studio for a range of business use cases.
- Built the conversation engine for a digital human product using structured JSON output and tool calling, well before that became standard practice.
- Built generative AI APIs on Azure OpenAI and LangChain, and shipped internal tools in React, Next.js, and FastAPI, deployed on Azure and AWS with Docker and Kubernetes.
- Created tutorials and training videos on RASA, AWS Lex, and chatbot development that have crossed 350,000 views on YouTube, and authored the internal guides the team relied on.

PROJECTS

Curriculum Development Tool (CDT), K-5 EdTech Platform. Sole builder of an AI pipeline that helps writers produce curriculum aligned to the Texas Essential Knowledge and Skills (TEKS) standards for grades K to 5. Built in Python with LangGraph and the Claude API, backed by a PostgreSQL vector store and a React and Vite front end, and deployed on Azure Container Apps with Docker, GitHub CI/CD, and Key Vault.

WealthIQ, AI Client Onboarding for UK Financial Advisers. Built the entire system solo, deployment included. A chat-first app with an adviser dashboard that onboards clients, runs KYC and PEP screening, and clears sanctions and compliance checks right inside the conversation. Integrated Sumsub and Didit for identity and PEP, Dynamics 365 for CRM, and Azure Communication Services for messaging, on FastAPI, React, Claude API, Azure OpenAI, Azure AI Search, PostgreSQL, and Azure Container Apps with GitHub CI/CD.

Email Processing System, Global Pharmaceutical Client (APAC). Lead developer on an email automation system built for a global pharmaceutical company's APAC operations. It reads incoming mail, uses AI to extract and structure the data, runs the required business calculations, and writes results to the database, with further calculation and reporting on the front end. Replaced a slow, manual workflow with a hands-off pipeline.

Miraal, Instagram and Social Commerce Bot. Sole developer of a social commerce automation platform spanning the Instagram, WhatsApp Business, and Facebook APIs. Built a custom image search engine so shoppers could find products straight from a screenshot, plus multilingual voice handling including Malayalam. The live build sends context-aware LLM follow-ups on Python schedulers, backed by a live support dashboard and agent KPI reporting.

Invoice Automation with Multi-agent Orchestration. Turned fully unstructured invoices into clean, validated data using Azure Document Intelligence OCR paired with a multi-agent setup. A fine-tuned model and supporting agents compare candidate outputs and decide the correct format case by case, which keeps extraction accurate across very different invoice layouts.

RASA RAG Bot, Telecom Client (Swisscom). Retrieval-augmented chatbot built on RASA CALM with the Claude API and Azure AI Search. Handles complex, multi-part customer queries by pulling live data at answer time, so responses stay accurate instead of leaning on rigid scripted flows, and takes routine load off human agents.

Enterprise IT Support Chatbot. An internal AI assistant built on Azure AI Agent with RAG for ticketing, leave management, and policy questions. It answers staff from internal documents and runs routine tasks on its own, deployed through Azure AI Foundry with live model monitoring and lifecycle management.

Document Intelligence and Q&A API. Combined Azure Document Intelligence, Azure OpenAI, and Azure AI Search to parse scanned contracts and PDFs and answer natural-language questions over them. Returns grounded answers alongside the source passages, so users can trust and verify each response across long, messy documents.

EDUCATION

B.Sc. Honours, Computer Science, Goa University

2019 to 2022 | CGPA 8.93

CERTIFICATIONS

Microsoft Certified: Azure AI Engineer Associate (AI-102)