

Shebin Mohan K

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Profile

AI Engineer with 3+ years building AI systems, working on LLM agents since 2024. Built a phone voice agent for inbound and outbound calls and a GPT-4o agent that picks from 14 tools per request, with RAG over Pinecone. Writes output checks and regression tests for agent work.

Skills

Programming languages: Python, TypeScript, SQL

LLMs, agents and voice: RAG, tool calling, Model Context Protocol (MCP), LangGraph, LangChain, Plivo, Deepgram, ElevenLabs

Testing and evaluation: Acceptance testing of agent output, output validation, regression testing

Data and retrieval: Pinecone, Amazon DynamoDB, Amazon S3, Redis, PostgreSQL, SQLite

Backend and web: FastAPI, WebSockets, WebRTC, REST APIs, Node.js, Bun, React

Cloud and delivery: Amazon Web Services (AWS), DigitalOcean, Docker, Docker Compose, Git, continuous integration (CI)

Work Experience

AI Engineer

Odyssey Therapeia, Bengaluru, India

May 2023 - Present

- Built a GPT-4o booking agent (Python, LangChain) to replace a fixed-flow booking chatbot. It picks from 14 tools per request, including RAG over Pinecone for doctor details.
- Wrote the FastAPI REST API those tools call, with data on AWS: 5 Amazon DynamoDB tables and documents in Amazon S3.
- Developed a Plivo voice agent for inbound and outbound calls (Deepgram, LLM, Sarvam) with barge-in, webhook signature checks, HMAC media tokens, Redis call state, Docker Compose and CI.
- Designed a FastAPI and LangGraph hiring backend that parsed CVs with validation and retries, scored them against job descriptions and fed interview questions to an ElevenLabs voice agent.
- Connected a device-side host to a remote specialist over two-way WebRTC audio and video, with a Python WebSocket signalling server, rooms, shareable meeting links and auto-reconnect.

Software Developer Intern

Odyssey Therapeia, Bengaluru, India

Feb 2023 - May 2023

- Built a React and Chart.js dashboard that plots live EEG data from a Neurosity Crown headset for the research team.

Projects

AI Workforce: agent orchestration workspace (developer preview)

2026

- Created a local workspace for Codex and Claude Code agents, with each agent in its own Git copy of the repository, parallel Codex runs across projects and an MCP server for task intake.
- Treated each agent's completion report as untrusted, running acceptance checks outside the agent on a frozen copy and testing against scripted sessions that faked work or rewrote tests.

TypeScript, Node.js, MCP, Git. 147 TypeScript modules, 158 TypeScript test files.

Case study: shebinmohank.com/projects/ai-workforce.html

Education

Bachelor of Engineering, Computer Science

HKBK Group of Institutions, Bengaluru, India

2019 - 2023

Publications

Co-author, conference abstract. VisiSpec: an AI-enabled vaginal speculum integrating coaxial illumination and intra-blade imaging for cervical screening. International Journal of Gynecological Cancer, Feb 2026.

Co-author. Automated Arm Robot for Intelligent Surveillance by Integrating Image Processing. International Journal of Novel Research and Development, Jun 2023.