Md Murtuza Ali

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AI ENGINEER · AGENTIC AI SYSTEMS · RAG

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AI Engineer with **end-to-end ownership** of Agentic systems, RAG pipelines and production AI products. Co-founded and lead engineering at **Mindalike**, a multiplayer AI workspace with **219 pre-launch beta users**, and built an open-source agent harness that **proves coding-agent output in a real browser**. Hands-on across the full stack: data → embeddings → retrieval → agent orchestration → evaluation → deployment. Stack: Python · TypeScript · LangGraph · FastAPI · Cloudflare · AWS.

Technical Skills

AI Agents & RAG:	LangGraph, LangChain, OpenAI Agent SDK Pydantic AI, CrewAI, MCP, Tool Calling, Multi-Agent Systems, RAG
Agent Design:	ReAct, Reflection, Planning, Tool Use, Short- & Long-Term Memory, Checkpointing, Human-in-the-Loop
LLMs & GenAI:	OpenAI, Anthropic, Gemini, Llama, Qwen, DeepSeek, AWS Bedrock, Workers AI, OpenRouter, Ollama,
Vector & Search:	Embeddings, Chunking, pgvector, Pinecone, Vectorize, Hybrid Search, Re-ranking, Web Search Grounding
Evals & LLMOps:	LangSmith, Langfuse, Ragas, LLM-as-Judge, Regression Evals, Guardrails, Prompt-Injection Defense, Model Routing
ML & DL:	Hugging Face Transformers, scikit-learn, NumPy, Pandas, Matplotlib, NLP, Fine-Tuning (LoRA / QLoRA)
Data & Backend:	Python, TypeScript, SQL, FastAPI, Node.js, Hono.js, REST, GraphQL, WebSockets, SSE, PostgreSQL, Redis
Cloud & DevOps:	AWS (EC2, S3), GCP, Cloudflare (Workers, D1, KV, R2, Queues), Supabase, Docker, Kubernetes, GitHub Actions, CI/CD
Testing:	Pytest, Vitest, Playwright

Experience

Lead Software Engineer & Co-Founder · Mindalike Technologies — Aug 2024 – Present

TypeScript · React.js · Next.js · LangGraph · WebRTC · AWS

- Co-founded **Mindalike** and reached **219 pre-launch beta users**; shipped it end-to-end: architecture → data model → agent runtime → **AWS deployment**.
- Built the **Canvas agent runtime**: LangGraph agents with tool calling, metered usage and **budget caps** that halt agents.
- Designed **agent consent & permission boundaries** (scoped, time-limited, revocable access); shipped matching, chat, WebRTC and OAuth.

Founder Cohort Member · Zerobase Season 4 — May 2026 – Jun 2026

- Selected as **1 of 20 founders globally** for a four-week program led by YC and a16z Speedrun alumni.

Projects

Contexer — Autonomous AI Engineering Agent — GitHub

Python · Pydantic · LangGraph · Playwright · Typer · Anthropic / OpenAI APIs · GitHub Actions

- Built an open-source agent harness: feature goal → **approved acceptance contract** → Claude Code / Codex / OpenCode implementation → **every check proven in real Chromium**.
- Engineered **bounded self-repair loops** with snapshot rollback, **tamper-proof hashed contracts**, LLM-free regression replay and a **GitHub Action merge gate** for agent PRs.

BurryAI — Agentic Personal Finance Copilot — Live Demo GitHub

TypeScript · Hono · Cloudflare Workers AI · Vectorize · D1 · Zod · Vitest

- Built a tool-using finance agent: intent detection → **6 deterministic finance tools** → RAG over **BGE embeddings on Vectorize** → Serper / Tavily web fallback → grounded answer.
- Implemented **multi-model routing** (GLM-4.7-Flash chat · QwQ-32B reasoning · Llama-3-8B fallback) with a rule-based last resort; JWT, rate limiting, Zod validation, **41 Vitest tests**.

SkillSet.ai — AI Collaborative Learning Platform — GitHub

TypeScript · Hono · Workers AI · Vectorize · Durable Objects · Queues · D1 / KV / R2

- Built **AI-generated learning paths** (modules → lessons → tasks), **AI feedback on submissions** and embedding-based peer matching.
- Content ingestion → **Cloudflare Queues** jobs → Vectorize re-indexing; real-time rooms on **Durable Objects + WebSockets**.

Healthcare.AI — AI Patient Monitoring Platform — GitHub IEEE Paper

Next.js · TypeScript · Gemini API · Supabase · Drizzle ORM

- Built a **Gemini-powered health assistant** personalised to each patient's vitals, conditions and medications, plus QR report sharing.
- Designed multi-disease risk assessment evaluated on **100 simulated patients, 3,000+ measurements**; published at **IEEE ICoECIT 2026**.

Education

B.Tech, Computer Science and Engineering — Vidya Jyothi Institute of Technology · 2022 – 2026 · CGPA 8.4/10

Achievements, Recognition & Certifications

- **3× Hackathon Winner** — Hack-O-Mania 2023 (1st of 99), TechXcelerate 2024 (BITS Pilani), Datanyx Telangana Datathon 2024.
- **NVIDIA Inception** — approved for Capital Connect (Oct 2026); **Google for Startups × Antler** Immersion 2026; **#97, F6S Top 100 AI Startups** in Hyderabad; incubated at **SU Knowledge Hub Foundation**.
- **IEEE Publication** — "Healthcare AI: An Integrated AI Platform for Proactive Patient Care and Medical Data Management," ICoECIT 2026.
- **Certifications** — CS50 AI with Python (Harvard) · Google for AI Impact Program · Web Development Bootcamp (Udemy).