PRATIK SONTAKKE

Agentic AI Engineer

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Professional Summary

Agentic AI Engineer with 3+ years of software engineering experience, specializing in building **autonomous multi-agent systems** and scalable RAG architectures. Expert in orchestrating stateful LLM workflows using **LangGraph**, **LangChain**, and **Python**, leveraging deep **backend engineering principles** (from a **Java/Spring Boot** foundation) to architect robust, high-performance AI systems. Proven ability to deploy secure, **self-correcting AI agents** on **AWS** and **Kubernetes** that handle complex tool-calling and real-time traffic.

Technical Skills

Agentic AI & GenAI: Multi-Agent Systems (LangGraph), LangChain, Model Context Protocol (MCP), RAG Pipelines, LLM Evaluation (Ragas), Tool Calling, OpenAI/Anthropic APIs
Backend & Data: Python (FastAPI, Pydantic), Java (Spring Boot), PostgreSQL (pgvector), Redis, SQL, Vector DBs (Chroma, Pinecone)
Cloud & DevOps: AWS (ECS, Lambda, Bedrock), Docker, Kubernetes (k8s), Terraform, GitHub Actions, CI/CD

Projects

Enterprise RAG Orchestration Platform |

- Architected a scalable **RAG pipeline** that ingests and indexes multi-format data, providing **production-grade conversational intelligence** for enterprise clients.
- Designed a secure **Multi-Tenant Architecture** on AWS using schema-per-tenant PostgreSQL and RBAC, ensuring **strict data isolation** within LLM context windows to prevent information leakage.
- Developed a high-performance **FastAPI orchestration layer** utilizing **PostgreSQL (pgvector)** for vector similarity search, optimizing retrieval latency to enable real-time, context-aware interactions.

Professional Experience

Senior Software Engineer AI - 5C Network
Sept 2025 - Present | Bengaluru, India

- Architected an autonomous **Multi-Agent Supervisor System** using **LangGraph** to audit 5,000+ daily radiology reports, implementing a **human-in-the-loop** workflow for low-confidence cases.
- Integrated **Ragas** evaluation pipelines to continuously monitor agent "faithfulness" and "answer relevancy," reducing manual QA workload by 30% through automated scoring.
- Deployed a context-aware RAG system for internal technical support, optimizing retrieval latency by utilizing **Hybrid Search** (Keyword + Vector) on proprietary medical data.

AI & Backend Consultant - Freelance
Nov 2024 - Jun 2025 | Remote

- Engineered a **Text-to-SQL Agent** integrated into a legacy **Spring Boot** microservice, empowering non-technical teams to query complex databases via natural language.
- Implemented **Model Context Protocol (MCP)** patterns to standardize tool-calling interfaces between the LLM and internal APIs, improving system modularity.
- Modernized core infrastructure on **AWS** using Terraform and containerized key Java microservices, establishing a CI/CD pipeline that slashed deployment times to under 10 minutes.

Software Engineer - Guenstiger
Apr 2023 - Oct 2024 | Delhi, India

- Optimized high-throughput backend services using **Java/Spring Boot**, increasing system throughput by 15% to support user growth without additional infrastructure costs.
- Developed an early Generative AI pipeline using the OpenAI API to auto-generate hundreds of SEO-optimized product descriptions, resulting in measurable improvements in organic search visibility.

Software Engineer - Edifition
Aug 2021 - Apr 2022 | Remote

- Developed and maintained backend modules for client-facing applications, primarily utilizing **Java** and established standards for service communication.
- Improved system stability and reduced development rework by rigorously adhering to API contracts and technical specification standards across assigned projects.

Education

AI Engineering Specialization (MisogiAI by Masai, Bengaluru. Focus: AI/ML, Autonomous Agents, LangGraph, RAG; Outcome: complex, multi-step tool-calling workflows.) Jun 2025 - Sept 2025
Full Stack Backend Specialization (Masai School, Bengaluru. Intensity: 1,200+ hrs focused on Java, Spring Boot, DSA, and System Design.) Apr 2022 - Apr 2023
B.Sc, Computer Science (Sant Gadge Baba Amravati University, Maharashtra) Apr 2017 - Nov 2020