

Thripurari Ramaharsha

Agentic AI Orchestrator · Python Backend Engineer

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Profile

I design Agentic AI workflows where specialised agents retrieve knowledge, coordinate tasks, and connect to dependable backend services. I combine Python, LangChain, FastAPI, RAG, and vector databases with a strong Java and production API foundation.

Core Skills

Agentic AI & RAG: Agent orchestration, LangChain, RAG pipelines, OpenAI SDK, ChromaDB, pgvector, prompt engineering

Python Backend: Python 3.x, FastAPI, REST APIs, Pydantic, Streamlit, Docker

Java Backend: Java 8–17, Spring Boot 3.x, Spring Security 6, Spring Data JPA, Hibernate, microservices, Kafka

Data & Databases: PostgreSQL, MySQL, DB2, SQL optimisation, Pentaho ETL, IBM Cognos, Power BI

Cloud, Frontend & Tools: AWS (S3, EC2, RDS), Docker, Git, CI/CD, Maven, Angular, AngularJS, React, Postman, Jira

Selected Projects

Agentic AI Orchestrator

Designed a LangChain multi-agent workflow, built document retrieval with ChromaDB, exposed it through FastAPI, and containerised it with Docker.

Technology: Python 3.11, LangChain, FastAPI, ChromaDB, Docker, OpenAI API

UIDAI — Aadhaar Core Platform

Built and maintained enrolment REST APIs, biometric and demographic validation logic, and zero-downtime support for state-level integrations.

Technology: Spring Boot, Microservices, MySQL, Maven

CGDA — Agnipath Salary APIs

Maintained salary-processing APIs, resolved API and data-validation issues, and supported uninterrupted disbursement.

Technology: Java, Spring Boot, PostgreSQL

Ag Guard — Agriculture Insurance

Sole full-stack developer for backend services, database design, and AngularJS screens covering policy, contract, and claims workflows.

Technology: Java, Spring Boot, AngularJS, MySQL

Courier Cost Management API

Built courier filtering and cost-calculation logic, technical design documents, unit tests, deployment, and production support.

Technology: Java 8, Collections, Spring Boot

Hospital Management System

Built patient registration, billing, appointment scheduling, and administrative workflow modules.

Technology: C#, ASP.NET, MySQL

BeneCard Healthcare BI System

Built multi-source healthcare ETL workflows, executive dashboards, compliance reports, and row-level security.

Technology: Pentaho ETL, IBM Cognos, Framework Manager, DB2

Employee Management REST API

Built a secure CRUD API with Java 17 records, JWT authentication, PostgreSQL, and Docker.

Technology: Java 17, Spring Boot 3.x, PostgreSQL, JWT, Docker

Highlights

- Built an Agentic AI orchestrator coordinating retrieval and response tasks across a RAG pipeline.
- Delivered APIs for the world's largest biometric ID system, serving 1.4 billion citizens.
- Maintained salary APIs behind a national defence payroll system.
- Built healthcare ETL and compliance reporting trusted by leadership.

Education

B.Tech — Information Technology, Christu Jyoti Institute of Technology & Science

MBA — Human Resource Management, Unity PG College