

ANJANA M

AI Engineer | Senior Backend Engineer | Generative AI & RAG | Python | Java | Azure AI | LangChain | Agentic AI
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UAE Dependent Visa | Immediate Joiner

PROFESSIONAL SUMMARY

Senior Backend Engineer and AI Engineer with 8 years of experience building production systems. Designs and runs scalable microservices and REST APIs with Java, Spring Boot, Python and FastAPI, backed by GraphQL, Kafka, Docker, Kubernetes, CI/CD and Azure. Alongside this backend work, builds LLM-powered applications, Retrieval-Augmented Generation (RAG) pipelines, AI agents, vector search, embeddings, prompt engineering, tool/function calling and LLM evaluation. Built an internal RAG-based assistant for enterprise company policies, letting employees retrieve policy information through natural-language queries. Combines strong microservice and API engineering with hands-on generative AI to deliver reliable, secure and observable AI-powered systems.

CORE AI & GENAI SKILLS

Generative AI & LLMs: LLM Applications, Generative AI, RAG, Prompt Engineering, Embeddings, Context Engineering, Structured Outputs, Tool/Function Calling, AI Agents, Agentic Workflows

RAG & Search: Retrieval-Augmented Generation, Document Ingestion, Chunking, Embedding Models, Vector Search, Semantic Search, Hybrid Search, Re-ranking, Knowledge Bases, ChromaDB, Azure AI Search

Azure AI: Azure OpenAI, Azure AI Search, Azure AI Foundry, Azure Cosmos DB, Azure Data Factory, Azure Key Vault, Azure Container Registry

AI Frameworks: LangChain, LangGraph, Hugging Face, MCP, Agent/Tool Orchestration

AI Engineering: RAG Evaluation, Retrieval Evaluation, Groundedness, Guardrails, Responsible AI, LLM Observability, AI Application Evaluation, Cost/Latency Optimization

Python AI Backend: Python, FastAPI, Pydantic, REST APIs, Async Programming, SQLAlchemy, pytest

Backend Engineering: Java, Spring Boot, Spring Security, Hibernate, REST APIs, GraphQL, Microservices, Event-Driven Architecture

Data & Cloud: SQL, MySQL, Oracle, Azure Cosmos DB, Kafka, Redis, Docker, Kubernetes, Helm, CI/CD, Jenkins, Bitbucket Pipelines, ArgoCD

PROFESSIONAL EXPERIENCE

Senior Software Engineer — IBM

Sep 2025 – Apr 2026

AI / Generative AI Project — Internal Enterprise Policy Assistant

- Designed and developed an internal Retrieval-Augmented Generation (RAG) assistant to help employees retrieve and understand company policies through natural-language queries.
- Built the RAG workflow connecting enterprise policy knowledge with an LLM, grounding responses in approved internal knowledge sources.
- Worked across document/knowledge ingestion, retrieval, prompt design, context construction, and LLM-based response generation.
- Applied embeddings, semantic retrieval, prompt engineering, response grounding, and enterprise AI design principles.
- Considered enterprise requirements around security, reliability, maintainability, and responsible AI.

Backend & Enterprise Engineering

- Maintained and enhanced a Spring-based enterprise application to improve performance, scalability, and security.
- Integrated RESTful APIs and third-party services supporting core business workflows.
- Leveraged IBM Bob and Claude Code for feature development, unit-test generation, refactoring, and technical documentation, with all AI-assisted changes reviewed and tested.

- Worked within an Agentic Development Lifecycle (ADLC), using AI agents for development and test-generation activities while validating agent output before merge.
- Generated comprehensive technical documentation for a legacy codebase using IBM Bob, addressing documentation gaps and improving maintainability and onboarding.
- Provided production support, troubleshooting, performance optimization, and issue resolution.
- Developed unit and integration tests using JUnit; maintained code quality through SonarQube, code reviews, CI pipelines, and Docker-based deployment.

Senior Software Engineer — Mindcurv

Jun 2022 – Sep 2025

Python / FastAPI / GraphQL BFF

- Developed a production Python FastAPI backend-for-frontend service using Pydantic for request/response validation.
- Built REST integrations and GraphQL APIs aggregating and orchestrating multiple downstream microservices.
- Implemented authentication, API versioning, error handling, Alembic migrations, and pytest-based unit/integration testing.
- Designed GraphQL schemas and resolvers to match frontend data requirements and reduce over-fetching/under-fetching.

E-Commerce & Cloud Engineering

- Developed and maintained Spring Boot/SAP Commerce applications for enterprise e-commerce workloads.
- Worked with Azure Data Factory, Oracle, Azure Cosmos DB, REST APIs, MySQL, Docker, CI/CD, and production support.
- Migrated stateful services to stateless REST endpoints and contributed to scalable microservice architectures.
- Used GitHub Copilot to accelerate development and testing while reviewing and validating generated code.

Senior Software Engineer — QuEST Global

Mar 2021 – Jun 2022

- Designed and built a Django-based integration microservice connecting third-party medical diagnosis applications with a hospital platform through REST APIs.
- Integrated third-party machine-learning algorithms for disease diagnosis into healthcare applications used by doctors and radiologists.
- Designed Kubernetes configurations for Docker-based third-party applications and automated microservice workflows using Netflix Conductor.

Associate Software Engineer — H&R Block (India) Private Limited

May 2018 – Feb 2021

- Developed and maintained Spring Boot microservices supporting tax-professional applications.
- Designed REST APIs and background-processing services for data enrichment and third-party integrations.
- Optimized ETL workflows using Azure Data Factory for data transformation and loading.
- Developed deployment documentation and supported production releases.

EDUCATION

Bachelor of Technology in Computer Science and Engineering

Rajiv Gandhi Institute of Technology, Kottayam, Kerala, India | 2013 – 2017

LANGUAGES

English — Fluent | Malayalam — Native