

DEVI PRASAD CHOUDHARY RATNALA

LEAD SOFTWARE ENGINEER | AGENTIC AI, CLOUD AND DISTRIBUTED SYSTEMS

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PROFESSIONAL SUMMARY

Lead Software Engineer with 10+ years delivering enterprise AI products, cloud-native platforms, microservices, and full-stack applications. Expertise across Java, Spring Boot, Python, React, AWS, Azure, Kubernetes, retrieval-augmented generation, and multi-agent systems.

REPORTED SCALE 50 stakeholders | 5+ accounts | ~1,500 documents | 300+ monthly questions | 20+ pipelines

ESTIMATED IMPACT 25% faster analytics | 35% less research time | 10% faster incident response

TECHNICAL SKILLS

Languages and frameworks: Java, Python, TypeScript, JavaScript, SQL, Spring Boot, Micronaut, Django, React, REST APIs, GraphQL, Hibernate
Agentic AI and LLM engineering: RAG, semantic search, LangChain, LangGraph, CrewAI, AutoGen, MCP, prompt engineering, fine-tuning, vector databases
Cloud, architecture and data: AWS, Azure, Lambda, Kubernetes, Docker, CI/CD, Kafka, microservices, Oracle, MongoDB, DynamoDB, Redis, Elasticsearch

PROFESSIONAL EXPERIENCE

Lead Software Engineer | **PepsiCo**

2022 - Present

- Launched AI-assisted Retail360 analytics for approximately 50 sales and operations stakeholders across 5+ retail accounts; estimated 25% faster analytics turnaround.
- Built a RAG workflow indexing approximately 1,500 documents and supporting 300+ monthly questions; estimated 35% less research time.
- Developed a multi-agent system monitoring 20+ data pipelines and triaging approximately 50 monthly failures; reported 10% faster incident response.

Senior Software Engineer | **Pegasystems**

2021 - 2022

- Architected an event-driven email microservice handling approximately 25,000 monthly events and automated 10+ case-management workflows across three cross-functional teams.

Software Development Engineer | **Amazon and Oracle**

2020 - 2021

- Built Amazon Impact with AWS Lambda, DynamoDB, and React for operational leadership; delivered Oracle product-change scheduling with Spring Boot and React/TypeScript.

Software Engineer | **Teradata and TCS**

2015 - 2020

- Developed Vantage analytics tooling and automated approximately 200 monthly cloud installations with Python and Django; reported 42% faster provisioning.
- Built a Spring Boot insurance-pricing engine and automated the end-to-end build process for more repeatable delivery.

CREDENTIALS AND EDUCATION

Microsoft Azure AI, Azure Data, and Azure Fundamentals | OCI Architect and Foundations Associate | Pega Certified System Architect | AI Engineer Core and Agentic tracks

B.Tech, Information Technology | JNTUK University College of Engineering, Vizianagaram | 2011 - 2015

SELECTED PUBLIC ARTIFACTS

- Interactive retrieval lab with visible ranking, thresholds, evidence, citations, and hit-at-k evaluation.
- Public-safe OpenAPI contract for ingestion, retrieval, grounded answers, feedback, and health checks.
- AI release checklist and incident retrospective templates covering quality, security, cost, and operations.

ENGINEERING PRINCIPLES

Ground answers in evidence | Keep humans in control | Observe the full chain | Own incidents to root cause | Document decisions