

Ankit Rana

Senior Software Engineer | Distributed Systems & AI Infrastructure

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SUMMARY

Senior Software Engineer at Walmart Global Tech with 5 years building cloud-native distributed systems for enterprise e-commerce, now leading agentic AI infrastructure: LLM pipelines, MCP server tooling, and enterprise-scale retrieval in production. Track record of cost-focused engineering, including a ~4 TB zero-downtime database migration that cut cloud cost 2X, Kafka disaster recovery across 45+ services, and multi-tenant frameworks serving millions of users.

EXPERIENCE

Walmart Global Tech · Bengaluru, India

Senior Software Engineer

Oct 2025 - Present

- Lead agentic AI infrastructure for enterprise e-commerce: **LLM pipelines and MCP server tooling** running in production.
- Design enterprise-scale retrieval for agent workloads: **hybrid search and RAG** over e-commerce data.
- Own **token cost engineering** for autonomous agent workloads, treating inference spend as a first-class reliability and budget concern.

Software Engineer III

Aug 2023 - Nov 2025

- Led **multi-tenant framework architecture** enabling new market launches on shared infrastructure at **millions-of-users scale**.
- Built **LLM agents and MCP server tooling** automating developer, support, and data operations across teams.
- Designed backend services in Java and Spring Boot on Kubernetes with Azure Cosmos DB, engineering for partition tolerance, predictable p99 latency, and infrastructure cost.

Software Engineer II

Jul 2021 - Jul 2023

- Migrated a **~4 TB customer-facing Cosmos DB container with zero downtime**, cutting cloud cost **2X** and raising scalability **10X**.
- Planned and executed **Kafka disaster recovery across 45+ services** in the e-commerce estate.
- Delivered a **zero-incident cutover** of a grocery banner to a modern inventory management system with better response time and availability (Walmart Team Award).
- Established the inventory system in an additional market, from discovery and solution design to standing up and onboarding a new team (Excellence Award).

SKILLS

Languages	Java, Spring Boot, TypeScript, SQL
Infrastructure	Kubernetes, Azure, Azure Cosmos DB, Apache Kafka, CI/CD
Systems	Distributed systems design, multi-tenant architecture, disaster recovery, caching, performance and cloud cost optimization
AI Infrastructure	LLM agents, Model Context Protocol (MCP), RAG and hybrid search, evals, token cost engineering

RECOGNITION

- Team Award · Walmart Global Tech, 2023
- Zero-incident cutover of a grocery banner to a modern inventory management system.
- Excellence Award · Walmart Global Tech, 2023
- Stood up an advanced inventory system in an existing market and onboarded a new team.

CERTIFICATIONS

- Claude Code In Action
- Anthropic, 2026
- Introduction to Generative AI
- Coursera, 2023

WRITING

Publishes engineering logs at **ankit-rana.com** on system design, database internals, caching, distributed systems, and AI infrastructure. 13,000+ followers on LinkedIn.

EDUCATION

BE, Computer Science Engineering · Chandigarh University

2017 - 2021