

ANKIT MAURYA

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INTRODUCTION

Specialised in designing scalable, high-performance systems that effortlessly adapt to growth. With a passion of problem solving, I tend to explore alternate best possible solution for tasks. Strong focus on Backend Distributed Systems, AI agents, RAG Framework and System Design.

TECH STACK

- **Domain** : Retail, Payments, Banking
 - **Languages**: Java, Golang, Python
 - **Framework** : Spring Boot, Spring, Quarkus, Temporal, FastAPI, GIN, Apache Spark, JPA, Apache kafka, Langchain, Langgraph, Langsmith
 - **Database / Cache** : Cassandra, Oracle, Redis, Memcached, MongoDB
 - **Tools**: Docker, Kubernetes, Splunk, Grafana, Github, SonarQube, JIRA
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WORK EXPERIENCE

Senior Software Engineer, Walmart Global Tech

Apr 2022 - Present

- Built a highly scalable shipping cost service for Walmart.com handling 3M+ TPM / 35K+OPM.
- Migrated legacy services to Spring Boot, GoLang and ingestion heavy Spark workflows.
- Solved Seller-Gaming issue which saved \$45M in revenue and involved complete re-architecture of multiple non-site facing applications involved in flow.
- Worked on pre-purchase features, catchment modeling (patent) , cross-border shipping etc.
- Developed an orchestrator framework which replaced multiple jar integration with gRPC calls
- Worked on React UI for internal project of experiment configuration on site.
- Took complete ownership of 5 Microservices(Item, Cart & Checkout Page), leading a team of 4 engineers.

Software Engineer 2, Global Payments

Mar 2020 - Mar 2022

- Integrated Salesforce with IVR using Kafka and Redis, improving scalability & performance.
- Secured Kafka with truststore certificates and Kerberos SASL.
- Worked on custom spring servlet, actuators, internationalisation (en-us / spanish), Logging, Kafka Integration, Redis onboarding during migration activity.
- Built IVR features: card orders, P2P transfers, inquiries, predictive services, and holiday messages, session restoration using Redis.
- Onboarded multiple functionalities which reduced 20K+ support calls via automation.

Software Engineer, Newgen Softwares

Jan 2018 - Feb 2020

- Scaled backend systems for BFSI and retail domains, handling 2k+ req/min and building high-performance services integrating with Infosys product Finnacle.
 - Optimised database procedures, thread-safe connection pools, and developed generic integration requests for oracle.
 - Developed a utility to perform all database operations reading from standard MS Excel as requirement from Banks.
 - Wrote a generic wrapper which handled response for multiple services and also perform audit log.
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LEARNING PROJECTS

Slice Cache

Dec 2025 - Feb 2026

- Engineered Slice Cache as a distributed in-memory key-value cache in Java, capable of serving requests in **<1 ms** latency under heavy workloads.
- Implemented core cache operations (GET, PUT, DELETE, TTL/expiry) with **O(1)** average performance using optimised concurrent in-memory data structures.
- Built a cluster architecture with **consistent hashing** for **sharding** and **node balancing**, achieving linear scaling from a single node to **10+ nodes** without performance degradation.
- Designed **replication** and **automatic failover** to maintain >99.99% availability under machine or network failures.
- Optimised I/O with **Java NIO multiplexing**, handling 50,000+ concurrent client connections on a 4-core / 16GB RAM machine, sustaining over **1M ops/sec** throughput.

DocuLens (Medium)

Aug 2025 - Sep 2025

- Built an AI-powered document search system using **RAG** to enable conversational Q&A over PDFs.
- Implemented PDF **ingestion**, **text chunking**, and **embedding generation** with a Qdrant database for fast semantic retrieval.
- Integrated LLM-based response generation with a chat interface, combining context retrieval and natural language answers.
- Exposed an **MCP** server to allow seamless integration of document knowledge into external document ingestion workflows.

Shipping Cost Prediction

May 2025

- Built a ML-based shipping cost prediction POC with Python + XGBoost, achieving **MAE to ~3** using feature engineering.
- Developed a FastAPI microservice with **Pickle** model persistence and **Pydantic** validation, serving predictions in **<50ms** latency.
- Designed a modular ML pipeline with preprocessing, training, evaluation, and retraining workflow for scalable integration into the shipping service.
- System has a UI which is now used by product for analysis and experiments.

EDUCATION

Post Graduation Program, BITS Pilani

May 2019 - May 2020

Specialised in Big Data Engineering

- Mid Exam Results CGPA : 9/10
- Final Exam Results CGPA: 8.63/10

B.Tech, KIET Ghaziabad (AKTU)

Aug 2014 - Aug 2018

- Secured 76% in Computer Science

12th Std, ISC Board

Mar 2012 - Mar 2013

- Secured 92% PCM

AWARDS & RECOGNITION

- **Impact Award** (2025): Recognised for contribution in AI space Shipping Prediction and Deep engineering in Meghacache (Walmart internal memcache wrapper)
- **Bravo Award** (2025): Recognised for re-architecting the Shipping Cost Service from the ground up.
- **Bravo Award** (2023): Awarded for delivering features ahead of schedule with zero defects.
- **Pat on the Back** (2021): Honoured for driving key technical upgrades to enhance legacy systems.
- **Rising Star** (2019): Presented by the CEO of Newgen Software for exceptional dedication.
- **Excellence Award** (2019): Recognised for developing POCs that secured long-term contracts with Bank Dhofar and First Bank of Nigeria.