

Abhijeet Karmakar

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EDUCATION

Techno Main Saltlake

Aug 2018 – Jul 2022

Bachelor of Technology in Computer Science, Aggregate: 8.38 CGPA

EXPERIENCE

Sapiens

Mar 2025 – Present

Developer (Life & Pension)

- Resolved API timeouts by implementing **pagination**, reducing latency to 500ms, and fixed 20+ issues across **Presentation Layer** and **Service Layer**.
- Modernized legacy services using the **Strangler Pattern**, introducing a **microservice** handling 40% of traffic, improving scalability and maintainability.
- Automated comparative testing with **Change Data Capture (CDC)** and **Aspect-Oriented Programming (AOP)** across versions and databases.
- Tech Stack:** Java 21, Spring, Spring AI, Jakarta EE, AOP, SQL Server, Apache Spark

LTIMindtree

Jun 2022 – Mar 2025

Senior Software Engineer (Banking & Finance)

Global Cash Management System – Citi Bank

Jun 2022 – Oct 2024

- Migrated 10+ microservices to **Spring Boot 3** and **Java 17**, improving performance and resolving GeM violations.
- Achieved 20% faster response time by migrating to **Spring WebFlux**.
- Deployed **API Gateway** with **Spring Cloud Gateway**, enabling DDoS prevention and rate limiting.
- Resolved 50+ critical issues, automated workflows using **Autosys jobs** and **shell scripts**.
- Tech Stack:** Java 17, Spring Boot, Angular, Oracle, Shell Script

Netting Engine – Citi Bank

Nov 2024 – Mar 2025

- Configured **CI/CD pipelines** on **Red Hat OpenShift** for auto-build and on-demand deployment.
- Implemented **Reactive Kafka consumers and publishers** for asynchronous messaging.
- Added automated **purge jobs** using shell scripts to minimize DB storage.
- Tech Stack:** Java 21, Spring WebFlux, SQL Server, Docker, Kubernetes, Kafka

PROJECTS

Autonomous PR Review Agent

- Developed a stateful review agent using **LangGraph** and a **RAG** pipeline to provide deep contextual analysis by querying a vector store of the codebase.
- Wrapped **SonarQube** and **BlackDuck** APIs as custom **LangChain Tools** to automate security vulnerability and code quality checks.
- Designed an autonomous **self-correction loop** allowing the agent to programmatically apply its own suggestions, re-run tests, and validate the fix.

Distributed Ticket Booking System

- Designed and implemented a **Microservice Architecture** with **Booking** and **Payment** services.
- Utilized **Redis** for caching and a **distributed locking mechanism** to manage concurrent seat reservations.
- Integrated **Kafka** for asynchronous messaging in the **Notification Service**, ensuring users receive real-time updates without blocking the main booking flow.

TECHNICAL SKILLS

Languages: Java (Core, 17/21), Golang, JavaScript, Python, Shell Script, PL/SQL

Backend Frameworks: Spring Boot, Spring WebFlux, Spring Security, Spring AOP, Jakarta EE

AI/ML: AI, LLMs, RAG, Spring AI, LangChain, LangGraph

Data & Messaging: Kafka (Reactive Messaging), Redis (Caching, Distributed Locks), SQL Server, Oracle, MongoDB, ZooKeeper

DevOps & Cloud: AWS, Docker, Kubernetes, OpenShift, CI/CD, Git, Maven

Observability & Performance: Prometheus, Grafana, Splunk, Profiling, Load Testing

Frontend: Angular, React, HTML, CSS