

ANINDITA A SARKAR

Senior Technical Architect | 18+ Years Building Scalable Systems

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PROFESSIONAL SUMMARY

Senior technical architect with close to 18 years of experience building scalable cloud-native systems. Expert in microservices architecture, event-driven design, and distributed systems. Currently architecting GenAI platforms at Adobe. Previously delivered high-impact projects at Zeta, PayPal, Tesco, and Harman. Co-founded a technology startup with 50+ published applications.

TECHNICAL SKILLS

Languages: Java (Primary), Typescript, JavaScript, Python

Backend: Spring Boot, Spring Cloud, Spring Webflux, NestJS, Node.js

Messaging: Apache Kafka, Kafka Streams, HiveMQ

Databases: PostgreSQL, Mysql, MongoDB, Redis, Couchbase, DynamoDB, ElasticSearch

Cloud: AWS (S3, Memory DB, DocumentDB, ElastiCache, DynamoDB, OpenSearch, SNS, Lambda, ELB, EC2), Azure (AKS, Blob Storage), GCP (Pub/Sub, Firestore)

GenAI: OpenAI, HuggingFace, langChain, lanceDb, ChromaDb

DevOps: Docker, Kubernetes, Jenkins, Argocd, Gitops, Git, Maven, Gradle, SonarQube

Monitoring: Prometheus, Grafana, ELK Stack, Splunk

Security: HashiCorp Vault, OAuth2

PROFESSIONAL EXPERIENCE

Senior Computer Scientist 2

Adobe, Bengaluru | Nov 2024 – Oct 2025

- Architecting Firefly Creative Production platform for GenAI-based creative APIs
- Designing microservices for driving Gen AI use cases using NestJS, Kafka, and DocumentDB on AWS

Tech Stack: NestJS, Python, Kafka, DocumentDB, Redis, Docker, Kubernetes, AWS

Principal Engineer 2

Zeta, Bengaluru | Jul 2022 - Oct 2024

- Led Payzapp & Zappcredit Rewards platform processing 5M+ daily transactions
- Designed rules engine using Drools for real-time rewards processing (14M+ users)
- Built event-driven microservices with Spring Boot, Kafka, and PostgreSQL
- Optimized Elasticsearch queries improving search performance by 60%
- Reduced response times from 800ms to 200ms through Redis caching strategy

Tech Stack: Spring Boot, Kafka, PostgreSQL, Elasticsearch, Redis, Drools, Docker, Kubernetes, AWS

MTS2 (Member of Technical Staff)

PayPal, Bengaluru | Jul 2021 - Jul 2022

- Led Engineering Excellence Program modernizing 4,500+ microservice instances
- Developed Jenkins plugins for CI/CD automation reducing build times by 40%
- Architected deployment solutions using Kubernetes and Mesos
- Reduced pipeline failures by 35% through improved validation

Tech Stack: Spring Boot, Jenkins, Python, Kubernetes, Mesos, Docker, GCP

Software Development Engineer 3

Tesco, Bengaluru | Jan 2020 - Jul 2021

- Architected Price Transformation Platform for 300K+ products
- Built reactive microservices using Spring Webflux
- Implemented event-driven architecture with Kafka and Couchbase
- Reduced deployment time from 4 hours to 30 minutes using Jenkins and Kubernetes
- Achieved 95%+ code coverage reducing production defects by 50%

Tech Stack: Spring Boot, Spring Webflux, Kafka, Couchbase, Docker, Kubernetes, Azure, Jenkins

Principal Engineer 1

Harman International, Bengaluru | Jul 2018 - Jan 2020

- Architected Ignite automotive IoT platform supporting millions of connected vehicles
- Implemented security modules (TCU-Shield) for vehicle data protection
- Built event processing pipelines using Kafka Streams (100K+ events/second)
- Optimized microservices reducing memory by 40% and latency by 50%

- Integrated HashiCorp Vault for secrets management across 50+ services
- Implemented monitoring using Prometheus, Grafana, and ELK

Tech Stack: Spring Boot, Kafka Streams, HiveMQ, MongoDB, PostgreSQL, HashiCorp Vault, Docker, Kubernetes, AWS

Senior Consultant

Capgemini India, Bengaluru | Jun 2014 - Jun 2018

MB Apps (Mercedes-Benz) | Dec 2017 - Jun 2018

- Migrated legacy systems to Spring Cloud microservices architecture
- Implemented distributed caching with Hazelcast (70% performance improvement)
- Established Docker and Jenkins CI/CD pipeline (60% faster deployments)

Tech Stack: Spring Boot, Spring Cloud, Hazelcast, PostgreSQL, Docker, Jenkins

Other Projects:

- Built IoT dashboard for Boon Edam (Netherlands) using Node.js, AngularJS, MySQL
 - Developed test automation tools for ASML reducing response time by 50%
 - Created testing frameworks automating 500+ test scenarios
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Co-founder & Technical Lead

Techworks Technologies, Kolkata | Mar 2008 - May 2014

- Co-founded startup and built engineering team from scratch
 - Developed peer-to-peer file transfer application 'Antida' using Java
 - Published 50+ mobile applications on iTunes, Google Play, and BlackBerry
 - Managed end-to-end product development and delivery
 - Built enterprise applications using Spring, Hibernate, and MySQL
 - Developed custom persistence framework outperforming existing solutions
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EDUCATION

Master of Computer Application (MCA) | 2005

Bachelor of Computer Application (BCA) | 2002

PASSION PROJECTS & HOBBIES

- QuizWrap - Built <https://quizwrap.com/> website, a RAG-enabled LLM tool calling solution using Langchain that generates quizzes from photos and PDFs. Integrated with OpenAI Platform APIs
 - Quiz Ajit - Built <https://qajit.com> website and mobile app for PPL exam prep; used ChatGPT for brainstorming and ideation
 - Educational Tools - Created <https://sinhaacademy.com> and <https://ajitkids.com> to teach Hindi and English; core functionality developed using GitHub Copilot
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KEY ACHIEVEMENTS

- Multiple awards from Zeta for scaling Audience Segmentation and Settlement systems
 - Led Engineering Excellence Program at PayPal impacting 4,500+ instances
 - Scaled Payzapp Rewards platform to 5M+ daily transactions with 99.95% uptime
 - Recognized for Ignite security modules and Mercedes-Benz platform migration
 - Extra Miles Award from Capgemini for exceptional performance
 - Published 50+ mobile applications as startup co-founder
 - Mentored multiple engineering teams on modern architecture patterns
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CERTIFICATES

- **AI Engineering Accelerator Program** (14 Day Intensive program from Outskill). Secured 2nd Place in Hackathon.
- **AI Generalist Accelerator Program** (14 Day Intensive program from Outskill)
- Pursuing 6 Months Fellowship program of AI Engineering.