

ARIJIT DEBNATH

Technical Architect | Solution Architect | Java Architect | Cloud Modernization | AI/ML Fraud Detection | BFSI

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Professional Summary

Technical & Solution Architect with 14+ years of hands-on Java (7–21), multithreading, and Spring Boot microservices experience delivering enterprise-grade BFSI & Fintech solutions. Specialized in modernizing legacy platforms into scalable, cloud-native architectures on AWS/GCP using Kubernetes, Terraform, Kafka, and serverless patterns. Designed sub-200ms ML pipelines that delivered 30% cost savings, 45% scalability improvements, and 15% fraud reduction. Combines deep Java engineering expertise with enterprise architecture strategy, TOGAF-based governance, and leadership of cross-functional teams of 15–20 engineers. Currently pursuing TOGAF (Mar 2026) and AWS Solutions Architect – Associate (Feb 2026).

Core Competencies & Technical Skills

- **Cloud & DevOps:** AWS (ECS, Lambda, API Gateway, S3, IAM, CodePipeline), GCP, Kubernetes, Docker, Helm, Terraform, CloudFormation, Jenkins, GitHub Actions, TeamCity, Prometheus, Grafana, ELK, FinOps.
- **Programming & Frameworks:** Java (8–21), Jakarta EE, Spring Boot/Cloud/Security, Python, Go, REST APIs, Event-Driven Design.
- **Messaging & Streaming:** Apache Kafka, Kafka Streams, RabbitMQ, Event-Driven Architecture.
- **Databases:** PostgreSQL, Oracle, MySQL, MongoDB, Redis, DynamoDB.
- **Security & Compliance:** Zero Trust, OAuth2, JWT, SAML, IAM, GuardDuty, Secrets Manager, Veracode, SOC2, PCI DSS, ISO 27001
- **Architecture & Strategy:** Enterprise & Solution Architecture, AI/ML Integration, Microservices, Cloud-Native Modernization, Cloud Migration, TOGAF Concepts, Roadmaps, Governance.
- **Leadership & Delivery:** Agile/Scrum, Architecture Governance, Team Leadership (15–20), Cross-Functional Collaboration, **Business Stakeholder Alignment, Compliance-focused Solution Delivery, Cost Optimization.**
- **Frontend/API/DB Alignment:** End-to-end architecture spanning frontend (React/TypeScript), middleware (Spring Boot), and databases (PostgreSQL/Redis) for seamless design and performance.
- **AI Coding Assistants:** Hands-on with GitHub Copilot, Microsoft Copilot, Code Whisperer, JetBrains AI Assistant, and VS Code Copilot Chat for AI-driven coding, refactoring, testing, and faster Java/Python/React development.

Key Achievements

- **Engineered** AI/ML fraud detection pipeline (Spring Boot + Python ML + Kafka) with <200ms scoring, **minimizing** false positives by 15%.
- **Migrated** 15+ applications to AWS/GCP microservices, **elevating** scalability by 45% and **driving down** costs by 30%.
- **Fortified** security with Zero Trust (OAuth2/JWT, SAML SSO, IAM guardrails), ensuring 100% PCI DSS, SOC2, and ISO 27001 audit pass rate while **curbing** incidents by 20%.
- **Optimized** PostgreSQL/Redis/DynamoDB performance, **accelerating** response times by 40% and **compressing** MTTR by 30%.
- **Introduced** Kubernetes + Helm orchestration, cutting release errors by 35% and **expediting** deployments.
- **Safeguarded** 99.9% system uptime through HA/DR strategies and rapid resolution of 30+ production incidents.

Professional Experience

HCLTech - Technical Architect

Jan 2023 – Mar 2025 | Client: Deutsche Securities Inc.

- **Transitioned** 12+ banking applications to AWS ECS microservices, **advancing** scalability by 45% and **lowering** expenses by 30%.
- **Refined** CI/CD pipelines (Jenkins, GitHub Actions, Terraform, GitLab), securing 99.9% release success.
- **Applied** IAM guardrails, OAuth2/JWT, ensuring 100% SOC2, PCI DSS, and ISO 27001 compliance while **closing** 15+ security gaps.
- **Orchestrated** API-first architecture with React/TypeScript, Spring Boot, and PostgreSQL, **shortening** response latency by 20%.
- **Developed** 15+ reusable templates, **streamlining** solution design cycles by 30% and **trimming** audit preparation from weeks to days.
- **Built** serverless compliance workflows (AWS Lambda + API Gateway), **curtailing** processing time by 25% and **minimizing** infra costs by 20%.

- **Mentored** 10+ engineers on Kubernetes/Kafka practices, **alleviating** deployment issues by 20%.

IBM India Pvt Ltd - Advisory System Analyst (Project concluded)

Jul 2022 – Sep 2022 | Client: Development Bank of Singapore

- **Architected** microservices for DBS API Plugin Marketplace, **compressing** partner onboarding time from 4 weeks to <3 weeks for 50+ partners.
- **Devised** Python ETL + Spark/PostgreSQL workflows with ML-driven anomaly detection, **diminishing** failures by 20% and **elevating** accuracy by 35%.
- **Implemented** Grafana/ELK dashboards with ML-driven insights, **slashing** incident detection time by 25% and **refining** API visibility across 50+ services.

LnT Infotech - Senior Software Engineer

Mar 2021 – Jul 2022 | Client: CITI Bank

- **Deployed** 40+ Java 8+/Spring Boot modules across multiple regulatory releases, **fast-tracking** compliance delivery.
- **Crafted** REST APIs, batch jobs, and data pipelines in Java/Spring, achieving 99.9% job success rates and cutting processing failures by 30%.
- **Introduced** PostgreSQL/Redis risk engine with Python ML (scikit-learn) for predictive fraud detection, **amplifying** accuracy by 35%.

Senrysa Technologies - Senior Software Engineer

May 2019 – Nov 2020 | Client: Internal Project Engagement (In-house)

- **Re-architected** monolith into 5 modular Spring Boot microservices, **condensing** bug resolution time by 35% and onboarding new developers faster (2 weeks → 5 days).

Freelance - Full Stack Developer

Nov 2017 – Apr 2019

- **Delivered** Spring Boot microservices for two fintech clients, **boosting** transaction throughput by 60% and **reducing** monthly hosting costs by 25%.

Agnes Global Technologies - Software Developer (Java)

Mar 2012 – Oct 2017 | Client: Internal Project Engagement (In-house)

- **Created** validation routines that **lowered** order-processing errors by 35%, **reinforcing** reliability and customer satisfaction.

Certifications & Training

- AWS Certified Solutions Architect – Associate | Amazon Web Services | Expected Feb 2026
- TOGAF Certification | The Open Group | In Progress – Target 2026
- Google Cloud Platform (GCP) Essential Training for Developers | LinkedIn | Completed Jul 2025
- IBM Cloud Essentials | IBM | Completed Jul 2022

Education

- Bachelor of Computer Applications (BCA) | IGNOU | Completed Dec 2019
- Higher Secondary | WBCHSE | Completed Jun 2002
- Secondary | WBBSE | Completed Apr 2000

Languages

- English (Fluent)
- Bengali (Native/Fluent)
- Hindi (Fluent)