

SUDHANSHU SHARMA

Principal Engineer | Software Architect | 14 Years Experience

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PROFESSIONAL SUMMARY

Results-driven Principal Engineer and Software Architect with 14 years of experience designing, modernizing, and delivering scalable, high-performance enterprise systems across banking, trading, aviation, client onboarding, and telecom domains. Deep expertise in Java (up to v21), Spring Boot 3.x, microservices architecture, Domain-Driven Design (DDD), Event-Driven Architecture (EDA), and streaming frameworks.

TECHNICAL SKILLS

Languages & Frameworks: Java 8–21, Python, Spring Boot 3.x, Spring Cloud, Spring Integration, Spring Security, OAuth2, Netflix OSS, JSF

Architecture Patterns: Microservices, Domain-Driven Design (DDD), Event-Driven Architecture (EDA), CQRS, SAGA, API Gateway, Circuit Breaker

Messaging & Integration: Apache Camel, Apache Kafka, RabbitMQ, JMS, Apache Airflow, Drools Rule Engine, FIX

Databases & Storage: PostgreSQL, pgvector, MySQL, MongoDB, Elasticsearch, Kibana, Redis

Cloud, DevOps & Security: AWS (EC2, Lambda, S3, RDS, ECS, ECR), Kubernetes, Docker, ArgoCD, Jenkins CI/CD, OWASP Top 10, PCI DSS, LDAP Directory Services

CERTIFICATIONS

AWS Certified Solutions Architect – Associate: (ID: 864e0ae1a4024f9d80741ec0e904a413)

AWS Certified AI Practitioner: (ID: 01d0f241c9c34456bd0a047d31ba2825)

Oracle Certified Professional Java Programmer: (ID: OC14004206)

PROFESSIONAL EXPERIENCE

Inadev India | **Solution Architect** Aug 2026 – Present

- Design scalable, secure, and highly available enterprise applications using modern architectural principles.
- Define application architecture, technology standards, and best practices across engineering teams.
- Lead the design and implementation of distributed systems and microservices-based solutions.
- Mentor and guide engineering teams on architecture, design patterns, and technology adoption.

Macquarie Group | **Principal Engineer – AVP** Jul 2025 – Aug 2026

- Architected and led end-to-end migration of the GCS clearing application to a cloud-native AWS environment using Java 21 and microservices, improving system scalability and reducing infrastructure costs.
- Designed production-grade ETL pipelines using Apache Airflow and Python to process trade flows with zero downtime, handling high-volume clearing transactions reliably.
- Defined microservices boundaries using Domain-Driven Design (DDD) with bounded contexts, enabling independent deployability and team autonomy.
- Leveraged AWS services (EC2, Lambda, S3, RDS, ECR) to build a fault-tolerant, highly available deployment model; containerized services with Docker and orchestrated via Kubernetes.

NatWest Markets | **Staff Engineer – AVP** Nov 2019 – Jul 2025

- Modernized legacy trading systems by integrating QuickFIX/J for low-latency financial messaging and electronic transaction reporting, improving trade throughput.
- Led design and delivery of event-driven microservices using Kafka and JMS for real-time transaction monitoring, adhering to PCI DSS and OWASP Top 10 standards.
- Applied Domain-Driven Design (DDD) principles to decompose monolithic trading components into independently deployable bounded-context services.
- Collaborated with Business Analysts and RegOps to translate regulatory requirements into technical architecture, defining sprint scope and engineering roadmap.
- Mentored engineers on data structures, multithreading and non-functional requirements; conducted code reviews and enforced architectural governance.

Nagarro Software | Lead Technology *May 2015 – Oct 2019*

- Led architecture and delivery of enterprise applications, translating functional requirements into high-level component designs with clear integration contracts.
- Designed and implemented a routing system using Apache Camel that validated input data and message type, enriched payloads with additional metadata, and converted formats before forwarding requests to destination servers.
- Designed RESTful APIs and event-driven integrations using Spring Boot and RabbitMQ, enabling async communication across distributed services.
- Applied OWASP security practices and OSS compliance checks as standard gates in the development lifecycle.

PeopleStrong | Software Engineer *May 2013 – May 2015*

- Built the HR SaaS product on JEE6 architecture with JSF/Primefaces on the web layer and RESTful web services for client integration.
- Delivered key product modules including employee self-service and workflow automation, contributing to a multi-tenant platform.
- Designed and implemented employee onboarding workflows, covering new hire registration, document verification, and role-based access provisioning to streamline HR operations.

Humanitics | Associate Software Developer *Jan 2012 – May 2013*

- Developed and maintained core backend modules for enterprise web applications using Java, J2EE, and foundational MVC frameworks.
- Collaborated closely with senior engineers to troubleshoot application bugs, optimize database queries, and deliver feature components within sprint timelines.

KEY PROJECTS

GCS Migration | Macquarie Group | *Java 21, Microservices, Apache Airflow, Python, AWS (EC2, Lambda, S3, RDS, ECR), Docker, Kubernetes*

Cloud-native migration of the Global Clearing System. Designed ETL pipelines for trade flow processing with uninterrupted availability. Defined DDD-based service boundaries and AWS deployment topology.

OCR & RAG Pipeline | Macquarie Group / *Python, AWS Textract, AWS Bedrock, OpenSearch, FastAPIs, Docker, Kubernetes*

Designed an OCR-driven document processing pipeline integrated with Retrieval-Augmented Generation (RAG). Leveraged AWS Textract for structured text for scalable, cost-efficient deployment.

PTT Rewrite | NatWest Markets | *Java 21, Spring Boot 3.x, Microservices, QuickFIX/J, Kafka, JMS, REST, Docker, Kubernetes, AWS, MongoDB*

Full modernization of the Post-Trade Technology platform. Integrated QuickFIX/J for FIX protocol messaging and built event-driven reporting pipelines for low-latency electronic transaction reporting.

RE Replatforming | NatWest Markets | *Java 17, Spring Boot 3.x, Microservices, JMS, REST, AWS, MongoDB*

Migrated legacy banking applications to cloud-native microservices on AWS. Applied Strangler Fig pattern for incremental decommissioning of legacy modules without service disruption.

EDUCATION

Master of Computer Applications (MCA) – Delhi Institute of Advanced Studies, GGSIPU (2009–2012)

Bachelor of Computer Applications (BCA) – Apeejay Institute of Technology, GNDU (2004–2008)