

## SUDHANSHU SHARMA

Principal Engineer | Software Architect | 14 Years Experience

Gurgaon | NCR | Hyderabad | Pune | Bangalore

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### PROFESSIONAL SUMMARY

Results-driven Principal Engineer and Software Architect with 14 years of experience designing and delivering scalable, high-performance enterprise systems across banking, trading, aviation and telecom domains. Deep expertise in Java, Spring Boot, microservices architecture, Domain-Driven Design (DDD), Event-Driven Architecture (EDA) and messaging frameworks (Kafka, RabbitMQ, JMS). Proven track record of leading cloud-native migrations on AWS, building event-driven distributed systems and guiding cross-functional engineering teams. AWS Certified Solutions Architect and Oracle Certified Java Professional.

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### CORE COMPETENCIES

Software Architecture • Microservices Design • Domain-Driven Design (DDD) • Event-Driven Architecture (EDA) • Distributed Systems • API Management • Cloud-Native AWS • High Availability & Fault Tolerance • Kafka / RabbitMQ / JMS • Java 21 / Spring Boot 3.x • ETL Pipeline Design • System Migration & Modernization • Technical Leadership • Security Architecture (OWASP, PCI DSS) • CI/CD & DevOps

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### 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 & Streaming:** Apache Kafka, RabbitMQ, JMS, QuickFIX/J

**Databases:** PostgreSQL, MySQL, MongoDB, Elasticsearch

**Cloud & DevOps:** AWS (EC2, Lambda, S3, RDS, ECS, ECR), Kubernetes, Docker, ArgoCD, Jenkins, Maven, Git

**Search & Rules:** Elasticsearch, Kibana, Drools Rule Engine

**Security & Compliance:** OWASP Top 10, PCI DSS, LDAP, OSS Compliance, Transaction Monitoring

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### CERTIFICATIONS

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

**AWS Certified AI Practitioner** (ID: 01d0f241c9c34456bd0a047d31ba2825)

**Oracle Certified Professional Java Programmer** (ID: OC14004206)

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### PROFESSIONAL EXPERIENCE

**Macquarie Group | Principal Engineer – AVP** Jul 2025 – Present

- 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.
- Established architectural standards and NFRs for the engineering team, defining patterns for error handling, observability and cloud resilience.

### **NatWest Markets | Lead Technology – 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.
- Drove containerization and Kubernetes-based deployment, enabling zero-downtime releases for critical trading infrastructure.

### **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 RESTful APIs and event-driven integrations using Spring Boot and RabbitMQ, enabling async communication across distributed services.
- Acted as primary client-facing technical lead, managing stakeholder expectations and resolving architectural queries across multiple concurrent projects.
- 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.

## **KEY PROJECTS**

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### **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.

### **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.

### **FIX Engine Reporting | NatWest Markets** | *Java 11, Spring Boot 2.x, Kafka, REST, JMS, Docker, Kubernetes, AWS, MongoDB*

Built a real-time transaction monitoring and reporting system for trading environments. Event-driven ingestion from FIX Engine with Kafka-based stream processing and MongoDB persistence.

## **EDUCATION**

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**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)