

Dilip Kumar Singh

Senior Technical Lead | Technical Architect

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📍 Gurgaon

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PROFESSIONAL SUMMARY

Senior Technical Leader with **13+ years of experience** designing and delivering large-scale enterprise systems across **HRMS, Insurance, and Travel domains**, with 6+ years in technical leadership driving microservices and cloud-native transformations.

Experienced in leading end-to-end incident management (triage, RCA, resolution, post-incident reviews) with strong focus on SLA adherence, system stability, and production reliability.

Led modernization of Enrich+ HRMS platform serving 20,000+ users, improving scalability, performance, and high-concurrency workload handling.

Strong focus on quality engineering, improving test coverage, reducing defect leakage, and implementing automated regression strategies.

Certified CORDA Blockchain Developer with hands-on distributed systems experience.

Led **Generative AI** adoption initiatives to enhance development productivity through AI-assisted prototyping, debugging, and automated testing.

PROFESSIONAL EXPERIENCE

Publicis Sapient

Senior Associate Technology L2

06/2022 – 05/2025 | Gurgaon

Enrich+ (HRMS Platform)

Enterprise-grade HRMS platform supporting workforce planning, staffing, and capacity management.

Tech Stack: Java, Spring Boot, GraphQL, Microservices, REST APIs, Kafka, MongoDB, Redis, Docker, Kubernetes (AKS), Azure DevOps, OAuth2, JWT, JUnit, Mockito

- Led architectural modernization of HRMS platform serving 20K+ users, improving scalability and workload distribution
- Redesigned service interaction patterns reducing database contention and improving system responsiveness under high concurrency
- Defined microservice boundaries, API contracts, and service communication standards
- Implemented resilience patterns (timeouts, retries, circuit breakers) improving system stability
- Established API standards (versioning, pagination, idempotency) across services
- Containerized services and deployed on Azure Kubernetes (AKS) with scalable infrastructure design
- Owned CI/CD pipelines with automated build, test, and deployment workflows
- Integrated OAuth2/JWT-based authentication ensuring secure access control
- Led design discussions, architecture governance, and sprint planning
- Mentored engineers and handled critical production incidents

Generative AI Leadership

- Led GenAI adoption initiatives for engineering teams
- Enabled AI-assisted prototyping, automated test generation, and developer productivity improvements
- Established best practices for AI-assisted development workflows

Chainthat Limited

Product Technical Lead

01/2019 – 02/2022 | Gurgaon

Insurance SaaS platforms supporting contract lifecycle management.

Tech Stack: Java, Spring Boot, Microservices, Apache Kafka, CORDA Blockchain, PostgreSQL, Hibernate/JPA, Docker, REST APIs, CI/CD

- Led architecture and delivery of distributed microservices-based insurance platform
- Designed event-driven systems using Kafka for high-throughput contract processing
- Implemented secure distributed workflows using CORDA blockchain for trusted transactions

TECHNICAL SKILLS

- Language: Java (8–17), SQL, JavaScript, HTML5, CORDA
- Frameworks: Spring Boot, Spring Framework (Core, MVC, Security), Hibernate, JPA, Meteor.js, Microservices Architecture
- Web Services: RESTful APIs, GraphQL, SOAP, SOA
- Databases: MongoDB, PostgreSQL, MySQL, Oracle, Redis
- Cloud & Tools: Microsoft Azure, Azure DevOps, Docker, Kubernetes, Jenkins, TeamCity, SonarQube, IntelliJ IDEA
- Testing : JUnit, Mockito, PowerMockito
- Build & Version Control: Maven, Gradle, Git, SVN
- Messaging & Streaming : Apache Kafka, JMS, ActiveMQ
- Security : Spring Security, OAuth2, JWT
- Methodologies : Agile / Scrum

CERTIFICATES

- R3 CORDA Certified Developer 

- Defined service decomposition, data ownership, and integration patterns
- Designed scalable persistence models with optimized queries and transactions
- Owned technical design, estimations, and risk mitigation strategies
- Managed CI/CD pipelines and ensured stable production releases
- Conducted architecture reviews and mentored engineering teams

Interglobe Technologies

Senior Java Developer

07/2015 – 01/2019 | Gurgaon

ARAS & MGCP (Government & Airline Systems)

Tech Stack: Java, Spring MVC, IBM MQ, ActiveMQ, REST/SOAP APIs, Oracle DB, Jenkins, JUnit, Mockito

- Engineered **ARAS (Advance Risk Assessment System)** and **MGCP (Multi-Government Carrier Portal)**, enterprise platforms for airline passenger screening and carrier management in government-regulated environments.
- Supported production systems with a focus on high availability, incident response, and timely resolution of system issues in regulated environments.
- Designed and implemented advanced passenger risk evaluation workflows leveraging **international watchlists, behavioral intelligence, and real-time messaging integrations**, enabling secure and compliant screening operations.
- Built high-reliability, end-to-end processing pipelines using **Spring MVC, Java, IBM MQ, and ActiveMQ**, ensuring resilient inter-system communication across airline and government systems.
- Partnered with client stakeholders to define scope, finalize sprint deliverables, and translate regulatory requirements into scalable technical solutions.
- Managed deployments and release cycles using Jenkins, and strengthened system stability through comprehensive **unit and integration testing (JUnit, Mockito)**.

NIIT Technologies

Senior Java Developer

04/2011 – 06/2015 | Greater Noida

CESDirect & SITA Voyager (Airline Reservation & GDS Systems)

Tech Stack: Java, Spring MVC, SOA, SOAP Web Services, Oracle DB, Sabre GDS, Maven

- Contributed to enterprise airline reservation and booking platforms integrated with **Sabre Red and global distribution systems (GDS)**, supporting multi-service travel workflows.
- Designed and implemented **contract-first web services within strict schema-based SOA architecture**, enabling reliable cross-system interoperability.

- Built scalable Spring MVC services with Oracle backend for high-availability transactional environments handling large-volume booking operations.
- Delivered complex modules for **SITA Voyager and CESDirect**, collaborating with business stakeholders to translate operational requirements into production-grade solutions.

EDUCATION

Bachelor in Technology

Meerut Institute of Engineering & Technology [🌐](#)

2010 | Meerut