

# Kamlesh Singh

Total Experience	Phone	Email ID	Linked ID
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## Career Objective

To leverage my 10+ years of expertise in Java, Spring Boot, and microservices modernization to build scalable, cloud-native systems and Event based systems. Seeking an Architect role where I can drive modernization initiatives, simplify complex architectures, and deliver high-impact solutions using cloud, DevOps, and AI-assisted engineering practices.

## Professional Summary

- Seasoned Backend Engineer with 10+ years of experience specializing in Java, Spring Boot, and scalable microservices architectures for enterprise-grade systems.
- Expert in designing and implementing distributed systems leveraging Spring Boot, domain-driven design, and API-first development principles.
- Proven expertise in event-driven architectures using Azure Event Hub, Service Bus, and Kafka for high-throughput, real-time workflows.
- 5+ years of experience modernizing legacy monoliths into microservices, ensuring clean separation of domains and seamless integration.
- For the last 2 years, contributed as an Associate Architect driving large-scale modernization - breaking down legacy monoliths into domain-aligned microservices, defining solution architectures, integration patterns, and ensuring high-quality technical design across teams.
- Developed an Agentic AI PoC using Spring boot, Java, Groq (LLaMA-3), OpenAI GPT models, and Ollama-based LLMs.
- Strong hands-on experience with Azure cloud services (Event Hub, Service Bus, Blob Storage, App Services), complemented by AWS and PCF exposure.
- Skilled in containerization and orchestration using Docker, Kubernetes, and Strimzi for enterprise-scale deployments.
- Delivered mission-critical modules such as **Payment Modernization**, orchestrating payment initiation, authorization, settlement, and reconciliation workflows.
- Adept at performance tuning, root cause analysis, and optimizing legacy code to align with modern clean-code and observability standards.
- Regularly leverage AI tools (GitHub Copilot, MCP Server) to accelerate development, generate test cases, and boost engineering velocity.
- Excellent collaborator with architects, designers, and cross-functional teams to solve complex integration and modernization challenges.

## Awards and Achievements

- I was awarded a spot award for the NEC Industrial IoT project in the NEC Company.
- Awarded as best contributor in Info-Gain for FedEx project.
- Awarded thrice consecutively for Spot Award in EY GDS.

## Technical Skills

Languages	CORE JAVA/J2EE, Python
Technologies	JDK 1.5- 1.8, J2EE (JSP), JDBC, Kafka, Event Hub
Frameworks	Spring, Hibernate, MyBatis
Scripts	Python, Shell-Script
Tools/Editor/IDE	Eclipse, IntelliJ, STS, Splunk, Grafana, Jenkins, GIT-Hub Actions, Docker, Kubernetes
Databases	MSSQL, MYSQL, Postgres, Document-DB, MongoDB
Patterns/Standards	Spring MVC, Spring Boot, Microservices
Cloud Platform	Azure,AWS, Predix, PCF
Open-Source Platform	Docker Container, Kubernetes, Rancher, PCF, OKTA, O-Auth2.0
AI Tools	MCP server Integration, Github Copilot

## Work History

Company (Location)	Description	Duration	Used Technologies
EY GDS (Noida, India)	EY GDS is a Global workforce that is utilized for clients across the globe.	Dec/2021-Present	Java, Spring-Boot, Microservices, Rest API Azure, GitHub-Actions, GitHub, MongoDB, Event Hub
Info-Gain (Noida, India)	The Silicon Valley based company deals in digital platform and software engineering.	Sep/2020-Dec/2021	Java, Spring-Boot, Azure, Jenkins, Python, Terraform, GITLAB, Splunk, Grafana, Microservices, Event Hub
NEC Technologies India (Noida, India)	A Japan based company which deals in the business of providing software services and smart IoT solutions for India and Global market.	May/2018-Sep/2020	Azure, AWS, Docker, Kubernetes, Rancher, Postgres, Python, Shell-Script, Ansible, Git, Microservices, Event Hub
Skill Lotto Solutions Private Limited (Gurgaon, India)	It is a part of Sugal & Damani Group which has varied business interests including Payment Services, Information Technology, Lotteries and Gaming, Hospitality, Real estate & Infrastructure.	May/2017-April/2018	Rest-API, J2EE (JSP), Spring, Hibernate, MSSQL, Java-Script, Maven
Wheebox (Gurgaon, India)	A product based, online assessment company.	Feb/2015-May/2017	Java, Spring, Hibernate, AJAX, MYSQL, Tomcat, SVN, Maven

## Education

<b>High School</b> Govt Inter College- Almora	2007
	57%
<b>Inter Mediate</b> Govt Inter College- Almora	2009
	58.40%
<b>Bachelors in Computer Application</b> Amrapali Institute of Management & computer application- Haldwani	2012
	68%
<b>Master of computer application</b> Vivekananda Institute of Professional studies-Delhi	2015
	82%

## Project Undertaken

<b>Client - Payment Module</b>	<b>EY GDS</b>
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**Description:** A mission-critical payment system modernization project converting a tightly coupled monolith into domain-driven microservices on Azure. Built end-to-end payment flows including initiation, authorization, settlement, and reconciliation with Kafka-based event orchestration, fault tolerance, idempotency, and scalable CI/CD pipelines.

**Environment:** Java, Spring-boot, Rest API, Postgres, Strimzi/Kafka, Docker Kubernetes

### Role Description:

- Owned backend architecture and implementation end-to-end of Spring boot services.
- Designed microservices using DDD, API-first design, and event-driven patterns.
- Implemented idempotent payment execution, Retry and CQRS for high-scale workflows.
- Integrated with payment gateway, settlement service, and notification microservices.
- Built CI/CD pipelines using ADO; automated test suites using AI tools.
- Improved transaction throughput, latency, and observability across the module.
- Designed Kafka based Notification system for transaction management.

EY GDS In-House Product	EY GDS
<b>Description:</b> Effectively decomposing the monolith into independently deployable microservices. Utilized technologies such as containerization and orchestration frameworks to enhance scalability, maintainability, and fault tolerance. <b>Environment:</b> Java, Spring-boot, Azure, Rest API, Graph, GitHub, Config Server, MongoDB, Postgres, Kafka <b>Role Description:</b> <ul style="list-style-type: none"> <li>Designed and implemented REST API and an efficient Inter Service communications.</li> <li>Designed GraphQL APIs and implemented pool-based multi threading approach for fetching data.</li> <li>Designed SAGA and Circuit Breaker Microservice pattern in the System.</li> </ul>	
EY GDS Client	EY GDS

**Description:** Migration of on-premises Java based application to Azure Cloud platform and upgradation of legacy application to microservices. Upgradation of monolith application to Microservice based solution.

**Environment:** Java, Spring-boot, Azure, GitHub Actions, Rest API, Git, Event Hub

**Role Description:**

- Updated source code base in alignment with platform requirements, ensuring compatibility.
- Prepared and optimized CI/CD pipelines to facilitate efficient and automated deployment processes.
- Contributed as a backend resource in Agile development, actively participating in iterative application development cycles.
- Applied advanced debugging techniques and problem-solving skills to address complex issues, enhancing overall system robustness and performance.

FedEx Cloud Support	Info-Gain India
<b>Description:</b> FedEx cloud support is an end-to-end system containing many technologies like JMS queue, Kafka, Spring-boot based microservices deployed in PCF and Azure resources. <b>Environment:</b> Java, Spring-boot, PCF, Jenkins, GITLAB, Azure PaaS, JMS, Microservices <b>Role Description:</b> <ul style="list-style-type: none"> <li>Optimize memory and enhanced Pub/Sub based Spring Boot microservice code</li> <li>Design in-memory buffer for an efficient consumption of Events from Kafka</li> <li>Designed Retry, Batching, Circuit breaker type of Microservice Pattern to resolve production issues.</li> <li>Provided knowledge-sharing sessions.</li> </ul>	

CSP-FIWARE	NEC Technology
<b>Description:</b> FIWARE is a curated framework of open-source platform components to accelerate the development of Smart Solutions. In CSP-FIWARE, we are providing container based FIWARE solutions orchestrated by Kubernetes. <b>Environment:</b> Docker, Kubernetes, Rancher, Java, RestAPI, SpringBoot, Microservices. <b>Role Description:</b> To make FIWARE's enablers compatible with Docker and Kubernetes environments.	

NEC Industrial IoT	NEC Technology
<b>Description:</b> It was an existing on-premises based solution and we have to migrate the entire application into a multi cloud platform. It takes data from sensors and uses it for business analytics. <b>Environment:</b> Java, Spring, MyBatis, Postgres, Azure, AWS. <b>Role Description:</b> <ul style="list-style-type: none"> <li>We designed and modified applications in a way that solution can be compatible with any cloud platform.</li> </ul>	

<b>AIVI Application</b>	<b>NEC Technology</b>
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**Description:** It is an artificial intelligence visual inspection application which helps in identifying the correctness of things using analytic application.

**Environment:** Servlet, PostGres, JSP, Javascript.

**Role description:**

- Made modifications in the existing application to execute on the different cloud platforms like Azure, AWS Predix and Minio.

<b>GST, EWAY</b>	<b>Skill Lotto Solutions</b>
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**Description:** Providing a portal-based solution to the end user to file their monthly/quarterly returns and communicate with the GSTN system through provided APIs.

**Environment:** Spring, Hibernate, MSSQL, Tomcat

**Role Description:**

- Build the project and design many possible robust databases, used procedures to fine/tune the performance of the system.
- Modification and adding new features in the system as per GST system changes or new released APIs.
- Code optimization and find the ways to short the TAT of selection data queries.

<b>Admin Portal</b>	<b>Skill Lotto Solutions</b>
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**Description:** Provided a JSP based monitoring and access control system to manage different companies/white -labels data and services given our company.

**Environment:** Spring, Hibernate, MSSQL, Tomcat, JSP, JavaScript, AJAX

**Role Description:**

- Build the project and provide the user hierarchy to control the data access system.

<b>Crafting Future</b>	<b>Wheebox</b>
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**Description:** Crafting Future project was for autistic kids and based completely on analytics, as it was, so we must maintain their growth very accurately based on data provided by their parents.

**Environment:** JSP, Spring, Hibernate, MYSQL, Tomcat, AJAX

**Role Description:**

- Build the entire project from scratch along with database design.
- Modification and adding new features in the system as per the client needs.

<b>HDFC Smart Achievers</b>	<b>Wheebox</b>
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**Description:** It was a portal to recruit sales candidates in HDFC. Portal used to have many user-admin based on their management hierarchy to upload, view and filter the candidate's data and filter out the best the best.

**Environment:** JSP, Spring, JDBC, MYSQL, Tomcat, AJAX

**Role Description:**

- Modification and adding new features in the existing system as per the client needs.
- Enhancement and code optimization to make the system robust.

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I, Kamlesh Singh, declare that the above information is correct and true as per my knowledge.

**Place: Delhi NCR**

**(Kamlesh Singh)**