

# Ritik Maheshwari

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[LinkedIn](#) | [GitHub](#) | [Ritik Maheshwari](#) | [Software Developer](#)

## Senior Software Engineer | Java, Microservices, Cloud, Big Data & AI Automation

5+ years of experience building scalable backend systems, cloud-native microservices, and enterprise-grade solutions using **Java, Spring Boot, REST APIs, and distributed systems**. Experience in building scalable data processing platforms, GenAI-powered automation tools, and high-performance backend systems using **Java, Flink, Kafka, Python & AI/ML**. Proven track record of improving product adoption, reducing development effort and delivering enterprise-grade solutions at scale.

## CORE SKILLS

- **Backend Development:** Java/J2EE, Python, Spring Boot, REST APIs, Microservices, Hibernate, MVC, JDBC, Servlet, JSP
- **Cloud & DevOps:** AWS, Kubernetes, Docker, Jenkins, Git, CI/CD
- **Big Data & Streaming:** Apache Flink, Apache Kafka, gRPC
- **AI/Automation:** GenAI, LangChain, Ollama, Agentic AI, LangGraph, LangSmith, RAG, MCP, VectorDB
- **Database:** MySQL, PostgreSQL, Yugabyte, MongoDB, H2
- **Frontend:** ReactJS
- **Testing & Practices:** Junit, Mockito, Agile, SOLID, SDLC, DSA

## WORK EXPERIENCE

### Nokia Solutions and Networks

Software Engineer

July 2024 - Present

- Designed and implemented **Spring Boot microservices** with REST APIs to support scalable enterprise platforms.
- Built and deployed cloud-native services on **Kubernetes/OpenShift** following cloud-ready practices.
- Building an **Agentic AI-powered** code generation platform leveraging **LLMs, LangChain, RAG** and **MCP** which translates designer-provided business logic into optimized Java applications, cutting development effort significantly.

Solution Engineer

August 2021 - July 2024

- Developed a **Generic Mediation Framework** in **Java + Apache Flink + Kafka**, handling multi-source ingestion, validation, and aggregation.
- Architected fault-tolerant Flink pipelines achieving **zero data loss recovery**.
- **Delivered 150+** customer-requested logic updates with strong **OOP and SOLID** principles.
- Boosted **adoption by 80%** with custom Flink sources (**TCP**) and sinks (**gRPC**).
- Improved **stability by 20%** by fixing **200+ defects** and enhancing test coverage.
- Automated **CI/CD** pipelines with **Jenkins & Docker**, reducing deployment effort.

Student Trainee

Oct 2020 - July 2021

- Built a **ReactJS + Python** application to simulate test data, improving testing results by **80%** and product analysis by **50%**.
- Implemented **CI/CD pipelines** with **Jenkins & Docker** for seamless deployments.
- Enhanced authentication & security via **Keycloak**, reducing incidents by **40%**.

## KEY PROJECTS

- **Generic Mediation Framework (GMF)** → Designed scalable Flink pipeline, adopted across multiple Nokia products.
- **Data Generation Tool (DGT)** → Simulated large-scale test data for product validation, boosting testing efficiency by **30%**.
- **Cloud-Native Deployments:** Automated deployment of Java microservices on Kubernetes clusters with CI/CD.
- **Lane Detection & Vehicle Tracking** → Applied **OpenCV & TensorFlow** for real-time autonomous driving support.

## AWARDS AND ACHIEVEMENTS

- Excellence Award - Data Generation Tool (DGT) → Recognized for boosting testing efficiency by 30%.
- Excellence Award - Generic Mediation Framework (GMF) → Enabled scalable integration across multiple products.
- Leadership in Productization of Generic Data Collector (GDC) → Credited for leading productization, enhancing interoperability across 10+ products.