Ritik Maheshwari

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LinkedIn | GitHub

Senior Software Engineer | Big Data & AI Automation

4+ years of experience building scalable data processing platforms, GenAI-powered automation tools, and high-performance backend systems using Java, Flink, Kafka, and AI/ML. Proven track record of improving product adoption, reducing development effort and delivering enterprise-grade solutions at scale.

EDUCATION

Chandigarh University, Mohali, Punjab, 140413, IND | **Aug 2017 - May 2021**
Bachelor of Engineering, Computer Science & Engineering (IOT) | **CGPA: 8 / 10**

CORE SKILLS

- **Programming & Backend:** Java, Python, SQL, JDBC, Servlet, JSP, Spring Boot, Hibernate, JPA, MVC
- **Big Data & Streaming:** Apache Flink, Apache Kafka, gRPC
- **AI/Automation:** Pydantic, GenAI, LangChain, Ollama, Agentic AI, LangGraph, LangSmith, RAG, MCP, VectorDB
- **Database:** MySQL, H2, PostgreSQL, Yugabyte
- **Miscellaneous:** DSA, Junit, Git, Jira, Kubernetes, Docker, Jenkins, OpenShift, Maven, ReactJS

WORK EXPERIENCE

Nokia Solutions and Networks
Software Engineer *July 2024 - Present*

- 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** solution in **Java + Apache Flink** to process **multi-source data ingestion, validation, correlations, and aggregations, exporting to multiple downstream systems.**
- Boosted adoption by **80%** by implementing custom Flink sources (**TCP**) and sinks (**gRPC**).
- Improved product stability by **20%** by resolving **200+ defects**, enhancing coverage with unit and integration tests.
- Delivered **150+ customer-requested business logic updates** using **OOP** and **SOLID** design, ensuring maintainability.
- Designed **fault-tolerant**, **highly available Flink pipelines**, achieving **zero data loss recovery**.
- Architected and deployed **scalable microservices** on **Kubernetes**/**OpenShift** platforms, improving resilience.
- Automated test documentation in **JIRA-Xray**, reducing reporting effort by **70%**.

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%.**
- **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.