

Samhitha Medulla

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Summary:

Backend Software Engineer with **2.5 years of experience** in **real-time data pipelines, AI automation, and cloud-native microservices**. Skilled in **Spring Boot, Apache Kafka, NiFi, and Elasticsearch** for **scalable event processing**. Expertise in **AI-driven automation**, including **code review, fraud detection, and behavioral analytics**. Proficient in **AWS, GCP, MySQL, MongoDB, Snowflake, Kibana, Grafana, and Prometheus**, optimizing **system performance and data-driven decision-making**.

Technical Skills:

- **Programming Languages:** Python, Java, JavaScript, SQL, C++
- **Frameworks & Libraries:** Spring Boot, Flask, TensorFlow, Scikit-learn
- **Cloud & DevOps:** AWS, GCP, Docker, Kubernetes, CI/CD (Jenkins, GitHub Actions)
- **Big Data & AI:** Apache Kafka, NiFi, Elasticsearch, BERT, GPT, LSTMs, GNNs, JOLT
- **Databases & Monitoring:** MySQL, MongoDB, Snowflake, AWS S3, Kibana, Grafana, Prometheus

Work Experience:

Software Engineer, IvyComptech, Hyderabad, India

Jan 2023 – Jul 2023

- Engineered **SnowPlowProcessor (SPP)** using **Spring Boot microservices** to process **1M+ daily behavioral events**, enhancing data accuracy by **98%** and enabling CRM dashboards for real-time insights.
- Designed robust validation and transformation pipelines in **Java**, ensuring JSON schema compliance, flattening payloads, and enriching data with **UserProfileService (UPS)**, reducing invalid data processing by **40%**.
- Optimized high-throughput event processing by integrating **Kafka, NiFi, and Elasticsearch**, enabling indexed event data for **Kibana dashboards** that track user behavior across **20+ business-critical decision-making cases**.

Software Engineer Trainee, IvyComptech, Hyderabad, India

Dec 2021 – Dec 2022

- Developed **AppsFlyer Hourly (AH) pipelines** using **Spring Boot batch processing**, automating **200K+ hourly record transfers from S3 to SFTP**, boosting **BI availability by 25%** and reducing **manual effort by 40%**.
- Built real-time data synchronization services in **Java**, ensuring **99% data consistency** across marketing and analytics teams, improving campaign execution and decision-making efficiency.
- Implemented **automated reporting pipelines** within the microservices ecosystem, enabling BI teams to receive scheduled data updates via email, reducing reporting delays in real-time business intelligence.

Associate Engineer, IngramMicro, Chennai, India

Jul 2021 – Dec 2021

- **Developed CasinoEventService** using **Java, Spring Boot, and Kafka**, processing **1M+ daily events** with high scalability, availability, and fault tolerance for distributed real-time transactional data pipelines.
- **Engineered Spring Kafka workflows**, optimizing **50+ Kafka topics**, achieving **99.9% transformation accuracy**, seamless service integration, and a **25% throughput increase** for high-efficiency pipelines.
- **Optimized NiFi pipelines with Java-based transformations**, filtering critical attributes, improving dashboard efficiency by **35%**, enabling **20+ real-time insights**, and reducing latency by **30%** for scalable backend architectures.

Software Engineer Intern, TheSmartBridge, Hyderabad, India

Oct 2019 – Dec 2019

- Built **CAPI projects for player behavioral analytics** with **Spring Boot REST APIs and Kafka**, processing **100K+ daily events** with **99% data delivery accuracy** across multiple real-time data workflows.
- Designed efficient **JSON transformation pipelines in Java**, leveraging JOLT transformations to optimize API compatibility, reducing processing times by **20%** while ensuring seamless client API integrations.
- **Integrated external APIs into Spring Boot microservices for real-time analytics and targeted marketing strategies.**

Certification:

- Introduction to Artificial Intelligence - Coursera

Projects:

AI-Powered Personalized Code Review System: Automates AI-driven code review, analyzing **1M+ lines daily** using **BERT/GPT**, reducing **technical debt by 40%**, and improving **security compliance and code quality by 30%**.

AI-Powered Real-Time Fraud Detection: Processes **500K+ transactions per second**, detecting **fraud with 98% accuracy** using **LSTMs/GNNs**, reducing **financial losses by 35%**, and lowering **false positives by 60%**.

Education:

Masters in Computer Science

University of Central Missouri, Warrensburg, Missouri

Exp May 2025

GPA: 3.55