

Samhitha Medulla

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Summary:

Results-driven Software Engineer with 2+ years of experience in backend development and a strong foundation in quality assurance, automation testing, and performance optimization. Expertise in Python, Selenium, and Java for automating test cases and ensuring product quality. Currently pursuing an M.S. in Computer Science (May 2025), with a keen interest in quality engineering and assurance roles to enhance software reliability and scalability.

Technical Skills:

- **Programming languages:** Python, Java, C++
- **Cloud Platforms and Databases:** AWS (EC2, S3, Lambda), GCP, PostgreSQL, MySQL, MongoDB
- **DevOps and Collaboration Tools:** Docker, Kubernetes, JUnit, Prometheus, Grafana, Git, GitHub, Bitbucket, JIRA
- **Backend Framework:** Spring Boot, Flask and **Testing Tools:** Selenium, Tosca, Cucumber, JUnit, TestNG, Postman

Work Experience:

Software Engineer, IvyComptech,

- Designed and tested CasinoEventService to process 1M+ daily events using Kafka pipelines, achieving 99.9% reliability and enabling a fault-tolerant system in a distributed backend architecture.
- Conducted rigorous automated and manual testing using Selenium and Python, reducing bug occurrences by 30% and improving customer satisfaction metrics across mission-critical real-time systems.
- Optimized NiFi workflows and implemented QA methodologies, enhancing event filtering by 40% and supporting 20+ real-time business dashboards without any operational interruptions or downtime.

Junior Software Engineer, IvyComptech, Hyderabad, India

Dec 2021 – Dec 2022

- Developed backend services processing 50+ Kafka topics daily and implemented automated test suites in Java and TestNG, increasing system throughput by 25% and reducing error rates by 15%.
- Automated end-to-end testing pipelines using Selenium and Cucumber, ensuring 100% compliance with QA standards and improving time-to-market for critical updates by 20%.
- Enhanced NiFi workflows for real-time data filtering, achieving 100% reliability and ensuring uninterrupted support for key operational processes in high-volume transactional systems.

Associate Engineer, IngramMicro, Chennai, India

Jul 2021 – Dec 2021

- Designed middleware routing 500K+ daily events across Kafka clusters, integrating automated testing frameworks and reducing latency by 25% while ensuring system scalability and reliability in multi-region infrastructures.
- Conducted performance and regression testing for backend services using JUnit and Selenium, improving test case coverage by 40% and identifying critical defects before production deployment.
- Built fault-tolerant microservices and tested inter-service communication, ensuring 100% system availability and maintaining consistent data accuracy across distributed environments.

Software Engineer Intern, TheSmartBridge, Hyderabad, India

Oct 2019 – Dec 2019

- Designed and tested CAPI project for processing 100K+ daily events, achieving 99% reliability and ensuring seamless integration with backend workflows using Kafka and automated testing tools.
- Developed JOLT transformations for JSON payloads, enhancing compatibility across APIs by 20% and streamlining real-time event-driven backend pipelines for major clients like Facebook and Twitter.
- Created automated test cases in Python and Selenium, improving efficiency in identifying edge-case errors by 30% and maintaining high software quality standards.

Certification:

- Introduction to Artificial Intelligence - Coursera

Projects:

Real-Time Data Fraud Detection Platform: Developed and tested a fraud detection system using Kafka and XGBoost, achieving 95% detection accuracy and reducing fraudulent activities in real-time financial transactions by 30%.

Real-Time AI-Powered Resume Screening Tool: Designed a scalable HR platform using Flask, Kafka, and AWS, achieving 98% resume ranking accuracy through automated test cases, reducing recruitment time by 20%, and ensuring seamless API integration.

Education:

Masters in Computer Science

University of Central Missouri, Warrensburg, Missouri

Exp May 2025

GPA: 3.55