Narasimharao Bhavirisetty

Software Engineer • Backend & Data Engineering
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Professional Summary

Software Engineer with 1.7+ years of experience building production-grade, event-driven backend systems. Specialized in Python stream processing using Apache Kafka and PyFlink, with deep hands-on work in real-time data pipelines processing 50K+ trade events daily through ClickHouse and Redis. At Algonox, delivered a 40% improvement in data extraction accuracy through rule-based validation systems and automated KPI reporting. Comfortable working across the full backend lifecycle: system design, distributed systems, microservices architecture, data modeling, and production debugging.

Technical Skills

- **Languages**: Python, Java
- **Frameworks & Tools**: Flask, Docker, Kubernetes, Git, Postman, Linux
- **Databases**: MySQL, MSSQL, PostgreSQL, ClickHouse, Redis
- **Stream Processing**: Apache Kafka, Redpanda, PyFlink
- **Observability**: Grafana, Loki, Tempo
- **Cloud**: AWS (Basics)
- **Concepts**: REST APIs, Microservices, Distributed Systems, Event-Driven Architecture, OOP, Agile, SDLC

Professional Experience

Software Engineer *December 2025 – May 2026*
Spizen Technologies (CLR3 Ventures), Bangalore, India

- Designed and built a real-time data pipeline processing 50K+ trade events per day through Kafka, PyFlink, ClickHouse, and Redis, enabling live tracking and analytics on trading activity.
- Built reliable stream processing jobs that automatically detect and remove duplicate records with 95% accuracy, ensuring clean data for all downstream analytics.
- Developed an automated classification system to identify suspicious trading patterns and bot activity, improving the quality of investment signals on the platform.
- Built a real-time scoring system that evaluates every trade event and generates live investment signals within milliseconds using multiple quality metrics.
- Instrumented the pipeline with Grafana, Loki, and Tempo for end-to-end observability — live throughput dashboards, structured log search across services, and distributed tracing to debug event latency.

Software Engineer *September 2024 – December 2025*
Algonox Technologies Pvt Ltd, Hyderabad, India

- Boosted document data extraction accuracy by 40% by implementing multi-layered business rule validation to clean and reconcile noisy, unstructured input data at scale.
- Built an automated email notification microservice for file queue transitions and SLA failure alerts, reducing manual monitoring overhead and improving response time.
- Developed an automated KPI reporting module tracking extraction accuracy and manual intervention rates, enabling data-driven reviews and a 20% reduction in manual QA effort.
- Built a scheduled module to automatically manage user account states based on inactivity periods, ensuring only active users retain system access and improving security compliance.

Education

B.Tech in Computer Science • Tirumala Engineering College, Narasaraopet *2020 – 2024* CGPA: 7.86/10
Intermediate (MPC) • Bhavana Junior College, Narasaraopet *2018 – 2020* CGPA: 9.46/10
SSC • Sindhu High School, Narasaraopet *2017 – 2018* CGPA: 10/10

Certifications

- Cloud Computing - NPTEL (IIT-backed national certification)
- AI and Machine Learning - Amazon Web Services (AWS)