

Amogh P

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SUMMARY

Software Engineer with strong foundations in C++, Python, SQL, and distributed systems. Hands-on experience building, benchmarking, and optimizing real-time data pipelines using Kafka, Spark, and scalable data stores. Skilled in validating system behavior under load, analyzing failures, and modeling production-like workloads—well aligned with core engineering roles in high-performance, distributed database environments.

TECHNICAL SKILLS

Languages: C++, C, Python.
Distributed Systems & Data: Apache Spark, Kafka, Airflow, Hadoop.
Databases: MySQL, PostgreSQL.
Concepts: Distributed Systems, Stream Processing, Data Modeling, ML Pipelines, ETL, System Design, DSA.
Dev & Collaboration: GitHub, VS Code, Jupyter, Google Colab, Notion, Linux.

EXPERIENCE

Backend Engineering Intern Jan 2026 – Present
JAR (Digital Gold Investment Platform)

- Currently working at Jar as a Backend Engineering Intern, building and maintaining production-grade systems for financial applications.

SELECTED ENGINEERING PROJECTS

Kirana Register – Scalable Financial Transaction Backend | *Java, Spring Boot, Redis, Kafka, PostgreSQL*

- Developed a Spring Boot backend to manage multi-currency (INR/USD) credit-debit transactions with Redis-based caching, rate limiting, and DAO-driven clean architecture.
- Built asynchronous reporting pipelines using Kafka to generate weekly, monthly, and yearly financial summaries (credits, debits, net flow).
- Implemented production-ready security and observability, including JWT authentication, Prometheus-Grafana metrics, and centralized logging via ELK stack.

Distributed Realtime Event Streaming Engine | *Kafka, PySpark, JavaScript*

- Engineered a **real-time sentiment analysis engine** capable of processing millions of emoji reactions per second.
- Benchmarked and optimized **batch vs. stream-processing architectures**, reducing latency by 42%.
- Visualized **model outputs and performance metrics** to improve scalability and design decisions.

PulseCity AI — Real-Time Urban Intelligence System | *Gemini, Firebase, Maps, Multimodal AI*

- Built a Gemini-powered system that synthesizes noisy city data into clear, real-time event summaries.
- Implemented multimodal reporting with automatic analysis of geo-tagged photos/videos.
- Designed a predictive alert engine to surface emerging traffic, outage, and safety patterns using SQL streams.

STRENGTHS & ACHIEVEMENTS

- Built reliable, high-performance Kafka-Spark-SQL pipelines for real-time data processing.
- Strong in DSA, OOP, and System Design for developing and scaling distributed systems.
- Solved 290+ LeetCode problems; earned **HackerRank Problem Solving (Intermediate)** certificate.
- Captain and represented district and zonal-level cricket team**, demonstrating leadership, collaboration, and ownership.

EDUCATION

PES University	Nov 2022 – May 2026
<i>B.Tech in Computer Science and Engineering</i>	<i>GPA: 8.02</i>
Siddaganga PU College	Aug 2020 – May 2022
<i>Higher Secondary Education</i>	<i>Percentage: 94%</i>