

# Subhro Majumder

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Bangalore, India

## Summary

Software Engineer with **3+ years of experience** designing and building scalable backend and web systems. Strong in **distributed systems, microservices, REST APIs, Kafka-based event-driven architectures, and observability**. Experienced in building production-grade systems focusing on **reliability, idempotency, and system design**. Targeting **SDE-2 / Backend Engineer** roles.

## Technical Skills

Languages	Java, C++, JavaScript, TypeScript
Backend	Spring Boot, REST APIs, Kafka, JPA/Hibernate
Frontend	Angular, HTML, CSS, Bootstrap
Databases	MySQL, PostgreSQL
System Design	Microservices, Saga Pattern, Transactional Outbox, Idempotency
Observability	OpenTelemetry, Prometheus, Grafana, Distributed Tracing
Tools	Git, Docker, Linux, Maven

## Work Experience

<b>Software Engineer — UnitedLayer</b> <i>Remote</i>	Apr 2023 – Present
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- Built and maintained enterprise dashboards using **Angular**, integrating multiple backend APIs.
- Improved application reliability and UX consistency through structured API integration and debugging.

<b>Research Engineer — LG Soft India</b> Bangalore	Jun 2022 – Feb 2023
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- Developed **C++ plugins** for LG Smart TVs supporting targeted advertisement workflows.
- Increased **unit test coverage from 65% to 91%** using GTest; resolved flaky test cases.

## Projects

<b>FleetX — Distributed Logistics Platform</b>	GitHub
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- Designed a **microservices-based logistics system** simulating real-world parcel transportation.
- Implemented **Saga Choreography** for order lifecycle coordination across services.
- Used **Transactional Outbox Pattern** to ensure reliable Kafka event publishing and avoid dual writes.
- Built **idempotent consumers** to safely handle duplicate and retried events.
- Integrated **OpenTelemetry** for distributed tracing with Prometheus and Grafana dashboards.

## Achievements

- Awarded **Rising Star** at UnitedLayer **twice** for high-impact contributions and consistent performance.
- Solved **500+ DSA problems** across platforms including LeetCode, covering arrays, trees, graphs, and dynamic programming.

## Education

<b>B.E. Computer Science and Engineering — JSS Academy of Technical Education, Bangalore</b> GPA: 8.05 / 10	2018 – 2022
Senior Secondary (XII), DAV Model School, Durgapur — 83.33%	