

Shane Rex Sasikumar

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SUMMARY

Backend Engineer with 3 years building distributed, event-driven microservices on Java, Spring Boot, and GCP, including transaction engines processing 3M+ records and pipelines handling 300K+ daily requests. I own systems end to end, from design through zero-downtime migrations to production incidents. I also introduced my team to Spec Driven Development, structured specs driving AI coding agents, and cut development time 30-50%. Looking for a product engineering team.

EXPERIENCE

Senior Software Engineer

Bounteous x Accolite

August 2025 - Present, Remote, India

- Architected a **GCP Pub/Sub event-driven** pipeline ingesting 20+ webhook event types, **300,000+ daily requests** at **99.99% delivery reliability**.
- Chose **Pub/Sub** over **synchronous HTTP** fanout to decouple ingestion from processing, isolating faults per event type with **dead-letter queues** and **exponential backoff retries**.
- Cut order history API responses from **6-8s to under 1s** by replacing direct **BigQuery** queries with a pre-aggregated **SQL Server** store, fed by a **Dataflow/Apache Beam streaming pipeline**.
- Owned end-to-end migration of **400,000+** customer records using **Spring Boot, Cloud Run, Redis** and **Cloud Tasks** enabling seamless platform transition for all users with zero downtime and no data loss.
- Introduced and drove team adoption of a **Spec Driven Development** workflow where structured **spec/plan/task files** direct AI coding agents, cutting development time **30-50%** versus feature estimates.
- Diagnosed and resolved a production data integrity incident, reconciled around **35,000** incorrect debits and restored **20,000** missing cancellation credits by cross-referencing the OMS, with zero customer escalations.

Software Analyst

Bounteous x Accolite

June 2023 - July 2025, Chennai, India

- Designed and built a **credit management system** from scratch on **Spring Boot** and **Cloud SQL (SQL Server)** with expiration tracking, state machines, and audit trails and migrated **3M+ historical transactions** with zero downtime.
- Eliminated a **concurrency race** assigning **duplicate customer numbers** at registration by wrapping generation in a **Firestore transaction**, restoring integrity of the identifier every downstream service references.
- Automated an inventory data ingestion pipeline using **Apache NiFi**, eliminating **100+ hours/month** of manual effort and reducing upstream data lag.
- Instrumented **GCP Cloud Monitoring** dashboards and multi-threshold alerting across **distributed Cloud Run services**, improving **observability** and reducing MTTR.
- Increased **JUnit5** test coverage from **75% to 90%** by introducing parameterized tests and mocking strategies, reducing regression failures across **CI/CD** pipelines.

EDUCATION

Bachelor of Engineering in Computer Science

Thiagarajar College of Engineering • Madurai, India • 2023 • 9.42

SKILLS

Languages and Frameworks: Java, Spring Boot, JUnit 5, Hibernate / JPA

Cloud & Infrastructure: Google Cloud Run, Cloud Build (CI/CD), Cloud Tasks, Cloud SQL, GCP Dataflow, BigQuery, GCS, GCP Pub/Sub, Cloud Monitoring, Cloud Scheduler, Docker

Databases & Data: PostgreSQL, Microsoft SQL Server, Redis, Firestore, Apache Beam, Apache NiFi

Core Concepts: Distributed Systems, Event-Driven Architecture, Microservices, System Design, REST API Design, Multithreading & Concurrency, Spec Driven Development, Agentic Engineering

Tools: Git, Apache Maven, IntelliJ IDEA, Visual Studio Code, Claude Code