

HARSH SRIVASTAVA

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PROFILE

Product-minded backend engineer with a builder's mindset and a bias for ownership. Drawn to difficult systems problems, measurable performance gains, and software that remains understandable under production pressure. Combines first-principles debugging, pragmatic system design, and fast learning across distributed systems, cloud infrastructure, and developer tooling.

EDUCATION

B.Tech in Computer Science and Engineering, Vellore Institute of Technology

Nov, 2020 - May, 2024

Specialization in Business Systems | 8.4 GPA

SKILLS

Languages:	Java, Python, C++, JavaScript, TypeScript, Node.js
Frameworks & Backend:	Spring Boot, GraphQL, REST APIs, gRPC, Microservices, Redis
Databases:	PostgreSQL, MySQL, Oracle DB, IBM DB2, Cassandra
Cloud & DevOps:	AWS EC2, AWS S3, AWS IAM, AWS Aurora, Kubernetes, Jenkins, ArgoCD, Terraform, Prometheus, Grafana, CI/CD
Core Concepts & Tools:	Kafka, Apache Avro, Parallel processing, Concurrent processing, Retry mechanisms, Failure isolation, Caching, Git, SQL debugging, API tracing, Production debugging

EXPERIENCE

Backend Engineer

Oct 2024 - Present

Tata Consultancy Services (TCS)

Client: Avis Budget Group

- Designed and owned a Java Spring Boot, Kafka-driven data pipeline processing 90K+ database records across PostgreSQL and IBM DB2, using bounded concurrency, resilient retries, failure isolation, and Apache Avro serialization; implemented Kafka-based asynchronous processing between ingestion, transformation, GraphQL middleware, and downstream mobility services to decouple service boundaries and shrink the failure blast radius during high-volume execution.
- Integrated Prometheus metrics and Grafana dashboards for pipeline observability (throughput, latency, retry counts, failure rates, Kafka processing health, database bottlenecks); engineered security-critical reservation-lifecycle orchestration integrating Voltage encryption/decryption through the C++ SDK and service APIs; diagnosed and resolved production incidents through log forensics, API tracing, SQL analysis, Kafka flow inspection, Kubernetes pod-level debugging, and backend code fixes.
- Integrated AWS-backed file storage workflows (S3, IAM-controlled access, lifecycle handling) for generated pipeline artifacts and deployed backend services through CI/CD pipelines using Jenkins, ArgoCD, Kubernetes, and AWS, managing release promotion, rollout visibility, environment configuration, and production debugging across distributed services.
- Built the database layer from scratch across PostgreSQL and DB2, including schema design, indexing strategy, sharding, replication-aware access patterns, and SQL debugging workflows to support large-scale reservation and fleet-allocation data processing.
- Designed and implemented GraphQL APIs for Avis Budget Group's Car Class Expansion platform, enabling expanded car-class availability across booking, search, fleet allocation, rate selection, reservation completion, and confirmation workflows while preserving backward compatibility.
- Reduced end-to-end pipeline runtime from 50 minutes to 20 minutes (60% improvement) through parallel execution, bounded thread pools, database query optimization, Kafka-backed workload distribution, and retry-safe failure handling; compressed intermediate payloads from 9GB of JSON to under 900MB using Apache Avro, a 90%+ storage reduction.

PROJECTS

[CrewCheck.in](#)

AI-Agent Governance and LLM Gateway Platform

- Built an enterprise-grade AI governance and LLM gateway control plane for Indian SaaS and BFSI, combining policy-based routing, PII redaction, tamper-evident audit trails, Kafka/Avro interception, shadow mode, circuit-breaker controls, red-team evaluation, and compliance-pack automation; reached 4.9K+ Google impressions during early indexing.
- [ConCallIQ.in](#)
- AI Earnings Intelligence for Indian Equities*
- Engineered a JSON-driven earnings-intelligence platform covering 100+ Indian equities, transforming management transcripts into structured summaries, guidance, risk signals, peer reality checks, scorecards, and SEO-indexable quarter pages; reached 12.9K+ impressions, 900+ sessions, and 685+ users.

CERTIFICATIONS

AWS Certified Solutions Architect - Associate

SQL Advanced - HackerRank

Python Advanced - HackerRank

Google Data Analytics Foundations