

Jai Singh

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PROFESSIONAL SUMMARY

Backend-focused SDE with 1+ year of production experience building high-throughput, event-driven microservices at TripJack, India's leading B2B travel platform. Architected an **AWS SQS** → **Apache Kafka** migration that cut consumer lag by **70%**, delivered **six zero-incident CRS & channel-manager integrations** that grew bookings by **30–40%**, and reduced infrastructure logging costs by **~40% (\$4,000+/month)**.

EXPERIENCE

TripJack

Software Development Engineer 1

Feb 2025 – Present

Java • Spring Boot • Apache Kafka • AWS SQS • MongoDB • PostgreSQL • Aerospike • ELK Stack • Git

- **Channel Manager Integration & SQS → Kafka Migration:** Led migration of the Extranet real-time rates & inventory pipeline from **AWS SQS** to **Apache Kafka** after in-flight backlog spiked to **10,000+ messages** at peak. Achieved strict event ordering, at-least-once delivery, and a **70% reduction in consumer lag** — eliminating production event loss.
- **Infrastructure Cost Optimisation (ELK Migration):** Replaced **\$10,000/month** EC2-based logging with a centralised **ELK Stack** and archived large Channel Manager payload logs to **Amazon S3** — cutting logging costs by **~40% (\$4,000+/month)** while improving log retention and searchability.
- **CRS & Channel Manager Supplier Integrations:** Delivered end-to-end integrations for **six supplier APIs** (Sterling CRS, Synxis, Jumeirah, HyperGuest, STAAH, RateGain) across the full lifecycle — Search, Book, Cancellation, and Amendment. Expanded bookable inventory, driving a **30–40% increase in bookings**; reusable Spring Boot adapters delivered **zero P1 incidents** and cut future onboarding effort **~30%**.
- **Production Observability & Structured Logging:** Instrumented the Extranet codebase with **Probe + Kibana** structured logging and trace IDs, cutting average **P1 diagnosis time from ~45 min to under 10 min (78% faster)** by enabling end-to-end request tracing.
- **Caching & Database Optimisation:** Implemented **Aerospike** low-latency caching for high-frequency supplier data, reducing redundant downstream API calls by **~60%** and improving cached search response times by **~35%**. Managed **MongoDB** and **PostgreSQL** across distributed services.
- **Bug Resolution & Booking Reliability:** Resolved **12+ critical production issues** across supplier integrations and booking flows in the first 6 months, improving booking success rates and platform uptime.

PROJECTS

StudyNotion

ReactJS • NodeJS • ExpressJS • MongoDB • JWT • Cloudinary

Full-stack **MERN**-stack ed-tech platform where instructors create/manage courses and students enrol and rate them. **JWT** auth + **OTP** verification, **Mongoose** ODM, **Cloudinary** for media storage, **RESTful APIs**. Monolithic backend architected with clean separation across auth, course, payment, and media modules for easy microservice extraction.

TECHNICAL SKILLS

Languages : Java, C++, JavaScript

Frameworks : Spring Boot, Spring MVC, REST APIs, Node.js, Express.js

Databases : MongoDB, PostgreSQL, Elasticsearch, Aerospike

Messaging & Caching: Apache Kafka, AWS SQS, Aerospike

DevOps & Observability: AWS, Git, Docker, Jenkins, Devtron, ELK Stack, Postman, Amazon S3

Concepts : Microservices Architecture, Event-Driven Systems, System Design, DSA

EDUCATION

Jaypee University of Information Technology

B.Tech in Computer Science

Waknaghat, Solan

June 2020 – June 2024

The Air Force School

Intermediate (Class XII)

Subroto Park, Delhi

April 2007 – March 2020