

# Ankur Jaiswal

## Associate Lead Backend Engineer

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## SUMMARY

Associate Lead Backend Engineer with 7+ years of experience designing and deploying cloud-native, scalable microservices using Node.js and NestJS. Strong expertise in building RESTful APIs, event-driven architectures with Kafka, and high-performance data pipelines. Proven experience managing the complete data lifecycle using PostgreSQL, Redis, and Elasticsearch, with a focus on system performance, reliability, and data integrity. Hands-on leader with experience delivering production systems on AWS and mentoring cross functional teams.

## SKILLS

- **Language & Framework:** JavaScript, TypeScript, Node.js, NestJS.
- **Database & Caching:** PostgreSQL, Redis, Sharding, Partitioning.
- **Messaging & Streaming:** Kafka, RabbitMQ.
- **Search & Indexing:** Elasticsearch, Change Data Capture(CDC).
- **Architecture & Design:** Microservices, Event-Driven Architecture, Data Pipelines, Data Archival.
- **Cloud & DevOps:** AWS(IAM, S3, EC2, ECR, ELB & ASG), Docker, CI/CD, Jenkins.
- **Tools & Practice:** Jira, Git, Agile(Scrum).

## PROFESSIONAL EXPERIENCE

Associate Lead Backend Engineer  
KNNX Corp. (formerly DLT Labs) | Noida

Jul 2018 - Present

(Previously: Software Engineer → Senior Software Engineer)

- Core backend engineer and lead for ASIK-Track, a fintech-enabled information supply chain platform.
- Designed and deployed cloud-native microservices using Node.js and NestJS on AWS.
- Built secure RESTful APIs and integrated external systems for reliable data exchange.
- Architected Kafka-based event-driven workflows, processing 500K+ transactions/day with 99.99% uptime.
- Implemented Hyperledger Fabric smart contracts for immutable transaction recording.
- Optimized performance using PostgreSQL indexing & partitioning, Redis caching, and Elasticsearch, reducing search latency to <3s.
- Mentored engineers and owned backend reliability in production.

# PROJECTS

## ASIK-Track

### Internal product at KNNX Corp. (formerly DLTlabs)

ASIK-Track is a fintech-enabled information supply chain platform with a built-in marketplace, designed to handle high-volume, secure, and auditable transactions for organizations.

- Designed and built scalable microservices using Node.js and NestJS, deployed on AWS.
- Architected a Kafka-based event-driven system processing 500K+ transactions/day with 99.99% uptime.
- Implemented distributed tracing across microservices and Kafka pipelines, enabling end to end request visibility and faster root-cause analysis in production.
- Implemented Hyperledger Fabric smart contracts for secure and immutable transaction recording.
- Built a real-time Fabric → Elasticsearch sync pipeline, reducing query latency by 30x (from 2 minutes to under 4 seconds).
- Developed a custom KafkaJS library with built-in retries, logging, metrics, and observability.
- Designed a multi-stage Elasticsearch data archival strategy, reducing hot index load by 40%.
- Built a Fabric Emulator to replace Hyperledger Fabric for single-org tenants, improving throughput and reducing operational overhead.
- Optimized data storage, caching, and search using PostgreSQL, Redis, and Elasticsearch.
- **Tech Stack:** Node.js, NestJS, Kafka, PostgreSQL, Redis, Elasticsearch, Hyperledger Fabric, AWS, CouchDB.

## Ethereum Transaction Management Framework

### Internal platform at KNNX Corp. (formerly DLTlabs)

A backend framework designed to reliably manage and track Ethereum blockchain transactions.

- Built an asynchronous transaction processing system using RabbitMQ.
- Achieved 100% transaction success rate through fail-safe retry and reconciliation mechanisms.
- Implemented transaction lifecycle tracking, audit logging, and traceability.
- Optimized transaction broadcasting to reduce network congestion and improve gas efficiency.
- **Tech Stack:** Node.js, PostgreSQL, RabbitMQ, Redis, Ethereum.

# EDUCATION

## Master in Computer Application (MCA)

Harcourt Butler Technical University, Kanpur.

Jun 2015 - Jun 2018

# ADDITIONAL INFORMATION

- **Languages:** English, Hindi.
- **Awards/Activities:** Knowledge Sharing & Technical Blogging Award (2022), Employee of the Year (2023).