

Mohit Kumar

Senior Backend Engineer — Distributed Financial Systems & Infrastructure

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SKILLS

Languages: Java, Python, SQL, JavaScript, TypeScript

Backend & Distributed Systems: Spring Boot, Microservices, Event-Driven Architecture, REST APIs, Apache Kafka, RabbitMQ, Redis

Cloud & Infrastructure: AWS (EC2, EKS, S3, CloudFront), Kubernetes, Docker, Terraform, Jenkins, CI/CD

Databases & Storage: PostgreSQL, MySQL, MongoDB, Elasticsearch

Observability & Reliability: OpenTelemetry, Grafana, Datadog, Distributed Tracing

EXPERIENCE

Software Development Engineer II

August 2024 – Present

Publicis Sapient (Client: Galaxy Digital, Hong Kong)

Gurugram, India

- Engineered digital asset transfer workflows integrating Fireblocks and institutional exchanges with idempotent transaction handling and distributed state reconciliation safeguards.
- Developed threshold-based rebalancing engine redistributing assets across trading, lending, and operational accounts while automatically derisking idle assets to secure Fireblocks vaults.
- Built exchange connectivity workflows standardizing deposit and withdrawal operations across institutional trading venues while reducing manual reconciliation overhead.
- Executed zero-downtime migration of 50+ backend microservices from EC2 to EKS, managing phased deployment rollouts across production trading environments.
- Designed organization-wide Kafka migration framework for MSK to Confluent Cloud transition, building bidirectional replay infrastructure enabling safe traffic cutovers and rollback workflows across distributed systems.
- Instrumented distributed services with OpenTelemetry and Datadog dashboards to improve operational visibility during production migrations and exchange workflow monitoring.

Software Engineer

June 2022 – August 2024

Pine Labs

Noida, India

- Architected backend for Apple Pay Later with HDFC Bank, building the eligibility engine, approval workflows, and real-time disbursement pipelines serving millions of users.
- Launched Flexi Credit lending platform processing INR 150M+ monthly across 85,000+ merchants with instant approvals up to INR 500K.
- Re-architected legacy batch-based merchant onboarding into a real-time, event-driven pipeline utilizing Kafka and Redis, reducing end-to-end processing latency from hours to sub-10 seconds.
- Built AML and fraud detection systems saving INR 360M+ in risk exposure; integrated HDFC, ICICI, and Kotak APIs for real-time BNPL credit checks.

Software Developer

March 2021 – March 2022

Adda247

Gurugram, India

- Implemented CloudFront and Redis caching reducing P90 API latency from 800ms to 150ms and lowering database load by 70% for a platform serving 10M+ monthly active users.
- Led StudyIQ platform integration by designing unified data models and REST APIs for cross-platform revenue tracking workflows.
- Built multilingual platform support for dynamic content workflows, enabling localization across multiple regional languages and improving accessibility at scale.

PROJECTS

Distributed Algorithmic Trading System | *Java, Spring Boot, Python, WebSockets, PostgreSQL, Redis*

- Architected polyglot microservices ecosystem with API Gateway, Auth, BFF, and Python-based trading engine for real-time algorithmic trading workflows.
- Built event-driven market data ingestion and WebSocket streaming pipelines supporting LIVE/PAPER execution modes with modular strategy orchestration.
- Implemented broker integrations, encrypted credential workflows, distributed tracing, and automated risk-management controls for trading execution pipelines.

EDUCATION

B.Tech in Computer Science and Engineering

August 2017 – June 2021

Guru Gobind Singh Indraprastha University (GGSIPU)

New Delhi, India