

ABHISHEK CHATTERJEE

Senior Software Engineer · Backend · Low-Latency & Distributed Systems

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PROFESSIONAL SUMMARY

Backend engineer with 4+ years on latency-sensitive systems for capital markets. Built multi-exchange market-data parsing at packet-processing latency below 500 microseconds, direct exchange-feed ingestion that removed a vendor from the price path, and distributed portfolio computation on AWS EMR. Works the full lifecycle - design, performance, observability and production incidents - across 10+ microservices in Java, Spring Boot, Kafka and AWS.

TECHNICAL SKILLS

Languages	Java · Python · SQL · JavaScript
Backend	Spring Boot · Microservices · REST APIs · Distributed Systems · Low-Latency Design · Concurrency · Parallel Processing · MapReduce · System Design
Cloud & Data	AWS (EMR, Lambda, S3, SQS, SNS, CloudWatch) · Apache Kafka · MySQL · MongoDB · Elasticsearch
Platform & Reliability	Docker · Kubernetes · Jenkins · CI/CD · Git · Prometheus · Grafana · Load Testing · Monitoring & Alerting · Incident Response
Domain	Market Data · Multicast Feeds · Order Management · Mutual Funds · Bonds & IPO · Capital Markets

PROFESSIONAL EXPERIENCE

Senior Software Engineer · HDFC Securities · Bengaluru, India Dec 2024 – Present

- Designed and delivered a buyback order management system end to end, adding a new transaction category alongside existing order types in the core trading platform.
- Built the SKY REST API suite exposing trading signals and technical indicators as a product surface, turning internal research output into a customer-facing, revenue-generating capability.
- Co-built an in-house feed multiplexer and parser that consumes exchange market data directly rather than through a vendor, removing a third-party dependency from the critical price path along with its recurring licence cost.
- Engineered the daily portfolio-processing job on AWS EMR, distributing mutual-fund holdings, returns and XIRR computation across the cluster with MapReduce to finish inside the overnight batch window.
- Standardised monitoring, proactive load testing and compliant release checks across customer-facing services using Prometheus, CloudWatch and structured error logs.

Paytm · One97 Communications / Paytm Money · Noida & Delhi, India Jan 2022 – Dec 2024

Senior Software Engineer, Paytm Money Jul 2024 – Dec 2024

- Built the live multi-exchange market-data parser, decoding exchange binary packet formats on the hot path at packet-processing latency below 500 microseconds to deliver near-real-time prices to customers.
- Developed a multicast circuit-breaker microservice that detects feed-line degradation and switches automatically between redundant streams, holding price availability without manual intervention.

Software Engineer, Paytm Money Feb 2024 – Jul 2024

- Consolidated Prometheus, AWS CloudWatch and per-service telemetry into a single monitoring and alerting platform shared across teams, making it the first stop during feed incidents.
- Owned production readiness, version upgrades and incident response across 10+ microservices.

Software Developer, One97 Communications Jun 2022 – Feb 2024

- Led backend development for the Bonds IPO platform in Java, Spring Boot and REST microservices, covering the application and allotment stages of the investment workflow.
- Shipped the pinned-stocks widget on the Paytm app homepage, served from Elasticsearch, extending investment discovery to the wider Paytm user base.
- Maintained IPO, Sovereign Gold Bond and Watchlist services across S3, SQS, SNS, Kafka, MySQL, MongoDB and Elasticsearch.

PROJECTS

Immutable KYC permission ledger (Solidity/Ethereum) · Plant disease CNN (TensorFlow/Keras) · Jenkins + Kubernetes job toolkit (Shell/kubectrl/HPA). Source and write-ups: portfolio-abhishek.nexus-library.in

EDUCATION & CERTIFICATIONS

M.Tech - Artificial Intelligence & Machine Learning · BITS Pilani (WILP) Sep 2023 – Sep 2025

B.Tech - Computer Science · Amity University Aug 2018 – May 2022

Certifications: Blockchain (IIT Kanpur) · AWS Academy Cloud Foundations · CCNA · Simplilearn DevOps