

# Ayush P Chaudhary

Backend Engineer · Java · Microservices · Distributed Systems  
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## SUMMARY

Backend engineer specialising in Java microservices, distributed systems, and high-throughput fintech infrastructure. SEBI-registered Research Analyst with live trading experience — bringing rare domain depth to financial product teams.

## TECHNICAL SKILLS

**Languages:** Java, C++, Python, SQL

**Frameworks:** Spring Boot, REST APIs, Microservices

**Messaging:** Kafka, RabbitMQ

**Databases:** MongoDB, PostgreSQL, Redis, Firebase

**Cloud & DevOps:** AWS (EC2, S3, Lambda), Docker, GitHub Actions, Bazel

## EXPERIENCE

### Backend Engineer & Prop Trader · Jainam Broking (Trade Delta)

Jan 2025 – Oct 2025

Bengaluru, KA

- Engineered low-latency trading algorithms in C++ with lock-free data structures and custom memory allocators, achieving sub-millisecond latency on critical execution paths.
- Redesigned backend from a monolith into Spring Boot microservices with Kafka-based async event pipelines, resulting in 70% improvement in system throughput and scalability.
- Led cloud migration to AWS EC2 auto-scaling groups with load balancing, achieving zero infrastructure bottlenecks during peak trading operations.

### Backend Developer · Chaitanya Projects Consultancy (CPCL)

Nov 2025 – Apr 2026

Remote

- Rebuilt Homeplanr's backend with RESTful Spring Boot microservices and MongoDB, supporting thousands of active listings on a fully decoupled, scalable architecture.
- Boosted platform performance via server-side caching and MongoDB index optimisation on high-traffic endpoints, achieving 80% reduction in page load time.
- Increased organic traffic by restructuring API payloads for SEO-friendly server rendering and metadata injection, resulting in measurable uplift in search rankings.

## PROJECTS

### DPI Engine — High-Performance Deep Packet Inspection System

C++ · Multi-threaded Pipeline · TLS/SNI Parsing · PCAP

- Engineered raw TLS/SNI extraction by manually parsing Client Hello payloads at the byte level, enabling domain-level traffic classification (YouTube, Facebook, Google) without decryption.
- Built a 2-tier multi-threaded pipeline (Load Balancers → Fast Paths) using consistent 5-tuple hashing for per-flow state locality, eliminating cross-thread contention on the hot path.

### Luminosity — AI-driven EdTech Platform

Java · Spring Boot · Mixture-of-Agents · Cloud Sandbox · Microservices

- Architected a Mixture-of-Agents backend routing student queries to domain-specific AI models (LLaMA 2, DeepSeek, Azure OpenAI) via a Java orchestration layer across four STEM domains.
- Engineered containerised code sandbox (KICAD, Icarus Verilog, Octave, Python) as resource-capped microservices, enabling safe concurrent real-time hardware simulation.

## ACHIEVEMENTS

- LeetCode Knight (1800+ rating) — ranked in top 1% in LeetCode Weekly Contest, demonstrating strong DSA foundations and consistent problem-solving under constraints.
- SEBI-Registered Research Analyst (NISM Certified) — licensed to publish equity and derivatives research; applies capital-markets knowledge to fintech backend development.
- Certified Equity & Commodities Derivatives Trader — live capital trading in futures and options, informing low-latency and risk-aware system design.

## EDUCATION

### B.E. Electronics & Communication Engineering

Dayananda Sagar College of Engineering, Bengaluru

CGPA: 7.0 / 10

2022 – 2026