

PRIYANSHU SINHA

Backend Engineer (SDE-1) | Java | Spring Boot | Distributed Systems | AI/LLM
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PROFESSIONAL SUMMARY

Backend Engineer (SDE-1) with 1.5+ years of experience building and operating production Java/Spring Boot microservices. Independently own 20+ production microservices within a 35+ service ecosystem, covering development, production releases, monitoring, and incident resolution. Built systems supporting **35K+ DAU** and **150K+ MAU**, handling **10K+ requests/minute** in production and scaling to **100K+ requests/minute during peak traffic**. Experience in designing scalable distributed systems and owning backend features end-to-end, with additional hands-on experience building AI/LLM-powered applications.

SKILLS

- **Languages** : Java, SQL, Python
- **Backend**: Spring Boot, Spring, REST APIs, Microservices, [Node.js](#), [Express.js](#), JPA/Hibernate
- **Databases & Caching** : MySQL, PostgreSQL, Redis, DynamoDB
- **Messaging & Distributed Systems**: Kafka, RabbitMQ, Multithreading, Concurrency, Asynchronous Processing
- **Cloud & Infrastructure**: AWS, EKS, EC2, S3, Lambda, RDS/Aurora, Docker, Kubernetes, ArgoCD, CI/CD
- **Search & Observability**: Elasticsearch, OpenSearch, Grafana, Kibana, Prometheus
- **AI/GenAI** : LLM API Integration, Generative AI, ASR/TTS pipelines, AI-powered Applications
- **Core CS**: DSA, OOP, SOLID, LLD, Design Patterns, System Design

WORK EXPERIENCE

StudyIQ — SDE-1, Backend Engineer

Gurugram, India | Dec 2025 – Present

- Independently own **20+ production Spring Boot microservices** within a **35+ service ecosystem**, covering feature development, REST API design, database changes, CI/CD deployments, monitoring, production debugging, rollbacks, and code reviews.
- Built and operated backend systems supporting **35K+ DAU** and **150K+ MAU**, handling **10K+ requests/minute on average** and **100K+ requests/minute during observed production peaks** across consumer-facing services.
- Improved high-traffic service scalability using **Redis caching, Kafka-based asynchronous processing, HikariCP tuning, Kubernetes HPA, and CloudFront**, supporting flash-sale and nationwide live-exam traffic.
- Achieved **92%+ Redis cache hit rates** on read-heavy course/catalog endpoints, eliminating **90%+ of MySQL reads** for targeted high-traffic flows.
- Built resilient **Kafka consumers** with concurrent/batch processing, retry/backoff, and idempotent database operations; optimized MySQL workloads by eliminating Hibernate N+1 queries and adding composite indexes for high-frequency transactions.
- Resolved critical production incidents involving **DMS/DynamoDB synchronization, OTP delivery backpressure, and duplicate notifications**, using distributed tracing and implementing automated recovery, queue isolation, and deduplication.
- **Built Mentors Buddy end-to-end as the sole backend developer**, delivering a Java 21/Spring Boot mentorship platform with an ACID-compliant credit wallet, Google Calendar/Meet integration, Firebase chat, and AI meeting insights; additionally built an **ASR → LLM → TTS pipeline targeting 50%+ support-call automation**.

Meditab Software — Backend Intern

Ahmedabad, India | Feb 2025 – Jun 2025

- Contributed to backend development for **IMS, a U.S. healthcare EHR and practice-management platform**, using Node.js, Express.js, and PostgreSQL.
- Investigated and resolved backend bugs and production issues across API, database, and asynchronous workflows, including RabbitMQ-based processing.

EDUCATION

CHANDIGARH UNIVERSITY

Bachelor of Engineering in Computer Science

Cumulative GPA: 8.02/10.0; Scholarship: 50% fee waiver for good Academic performance.

Mohali, Chandigarh

July 2021 - May 2025