Sagar Shrivastava

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Work Experience

Software Engineer   June 2022 - Present (2 years 9 months)
LTIMindtree, Kolkata, India   Backend Development Team

- **Production Issue Resolution & Reliability Improvement:** Led resolution of 500+ critical production incidents (100K+ users), achieving MTTR under 8 hours. Enhanced system reliability by 15%, improving user satisfaction and service availability.
- **Microservices Migration & Deployment Efficiency:** Spearheaded legacy system migration (10K daily transactions) to Spring Boot microservices architecture(15+ microservices). Implemented Spring Cloud Config and design patterns, resulting in **60% deployment time reduction** and zero data loss.
- **API Performance Optimization & Caching Strategy:** Engineered scalable REST APIs using Spring Boot and multi-level Redis caching (cache-aside, write-through). **Reduced database load by 25%** and **improved API response times by 40%**, enhancing performance.
- **Latency Reduction via JVM Tuning:** Resolved latency bottlenecks in high-traffic legacy application (50K+ daily requests) via JVM tuning and garbage collection optimization. Achieved **20% latency reduction**, improving user responsiveness.
- **Agile/Scrum & Team Mentorship:** Employed Agile/Scrum in sprint planning, reviews, retrospectives. Mentored 10+ team members, reducing onboarding time from 45 to 15 days and improving team productivity by **20%**.

Software Engineer Intern   Feb 2022 - May 2022
Mindtree, Kolkata, India   Internship Program (Certificate)

- **Backend Development for Parking Management System:** Developed Spring Boot backend for parking management system (500+ vehicles). Streamlined parking operations and improved space utilization.
- **Feature Implementation & Security Enhancement:** Implemented intelligent spot allocation, presence-based updates, JWT authentication. Enhanced user experience, security, and operational efficiency.

Personal Projects

Real-Time Chat Application   Spring Boot, WebSocket, PostgreSQL, Redis
(Design Document) — (Code)

- **Scalable Architecture Design:** Architected scalable real-time chat backend using Spring Boot, WebSockets (STOMP), PostgreSQL, and Redis for high availability and extensibility.
- **Advanced Feature Implementation & Security:** Engineered message delivery guarantees (RabbitMQ), presence status, group chat, real-time notifications. Implemented JWT/OAuth2 for secure API access and authentication.

Scalable Notification Service   Spring Boot, Kafka, RabbitMQ, PostgreSQL, Redis
(Design Document) — (Code)

- **Distributed Event-Driven System Design:** Designed distributed, event-driven notification service using Spring Boot, Kafka, and RabbitMQ for high availability across multiple channels (Email, SMS, Push, Webhooks).
- **Fault Tolerance & Data Integrity:** Engineered fault tolerance with error handling, retry mechanisms, dead-letter queues. Leveraged PostgreSQL/Redis for persistent storage/caching to ensure reliable delivery and data integrity.

Training & Certification

Software Engineering Trainee   Mar 2022 - May 2022
Wipro, Remote   (Certificate)

- **E-commerce Backend Development with Spring Boot:** Completed Wipro training in backend development, building a functional e-commerce backend with Spring Boot, including user authentication, admin dashboard, product catalog, shopping cart, payment simulation, and order fulfillment.

Skills

- **Programming Languages & Frameworks:** Java, JavaScript, Spring Boot, Spring Cloud (Config, Gateway), Spring Data JPA, Hibernate, ReactJS, WebSockets (STOMP)

- **Tools & Technologies:** PostgreSQL, Oracle, MongoDB, Redis, Kafka, RabbitMQ, REST APIs, Git, GitHub, Jira, SVN, Docker, Postman, OAuth 2.0, JWT, Load Balancing

- **Methodologies:** Agile/Scrum, OOP, Microservices Architecture, Distributed Systems, Caching Strategies, Design Patterns, Problem Solving, Performance Tuning

Education

Bachelor of Technology in Computer Science & Engineering   2018 - 2022
Neotia Institute of Technology Management and Science, Kolkata, West Bengal   CGPA: **8.70**