SANGRAM SARKAR

JAVA DEVELOPER

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BIDHANGARH, KOLKATA

OBJECTIVE

Passionate **Java Developer** with expertise in **Spring Boot microservices architecture**, **distributed systems design**, and **cloud-native applications**. Proven track record in building **scalable backend systems** with **high-performance databases** and **event-driven architectures**. Strong **analytical problem-solving skills** with **200+ competitive programming solutions** and experience in **agile development methodologies**. Seeking to leverage my **technical leadership abilities**, **system design expertise**, and **collaborative teamwork approach** to contribute to innovative software solutions in a dynamic development environment.

EDUCATION

- **BTech in Computer Science and Engineering** | Techno International Batanagar | **SGPA:** 8.2 | 2025 – 28
  - o **Relevant Coursework:** Data Structures, Algorithms, Database Management, Software Engineering
- **Diploma in Computer Science and Technology** | The Calcutta Technical School | **OGPA:** 8.7 | 2022 - 25
  - o **Relevant Coursework:** Advanced Programming, System Architecture, Network Technologies

PROFESSIONAL PROJECTS

1. **BookMyShow Backend Service |** *Spring Boot, Hibernate, MySQL, Redis, Elasticsearch, Stripe, AWS Elastic Beanstalk*
   a. Built **complete movie booking system** with seat reservation and payment integration
   b. Implemented **concurrency-safe booking** with optimized caching and auto-scaling deployment
   c. Achieved **comprehensive testing** with automated CI/CD pipeline

2. **IRCTC Ticketing System |** *Spring Cloud Gateway, Eureka Service Discovery, Kafka, MySQL, Cassandra*
   a. Designed **scalable microservices** with User, Booking, Payment, and Notification services
   b. Implemented **SAGA-based distributed transactions** and event-driven architecture
   c. Configured **database sharding** and disaster recovery mechanisms

3. **Parking Lot Management System |** *Java, Design Patterns (Factory, Strategy), JUnit, Mockito*
   a. Applied **SOLID principles** with comprehensive UML documentation
   b. Developed **dynamic slot allocation** for multiple vehicle types with optimization algorithms
   c. Achieved **90%+ test coverage** with performance benchmarking

TECHNICAL EXPERTISE

- **PRIMARY SKILLS**
  - o **Programming Languages:** Java (Advanced), Python (Intermediate), C (Intermediate)
  - o **Enterprise Frameworks:** Spring Boot, Spring Cloud, Spring Security, Hibernate ORM/JPA
  - o **Database Technologies:** MySQL (Advanced), Redis Caching, Elasticsearch
  - o **System Architecture:** Microservices Design, RESTful API Development, Event-Driven Architecture
  - o **Cloud & DevOps:** AWS Services (EC2, RDS, Elastic Beanstalk), Docker Containerization
  - o **Message Queuing:** Apache Kafka, Distributed Messaging Systems
  - o **Core Competencies:** Data Structures & Algorithms, Object-Oriented Programming, Design Patterns
- **SECONDARY SKILLS**
  - o **Databases:** Cassandra (NoSQL), Advanced Database Optimization
  - o **Additional Frameworks:** Spring Cloud Gateway, Eureka Service Discovery
  - o **Authentication:** OAuth2, JWT Token Management
  - o **Testing Frameworks:** JUnit, Mockito, Integration Testing
  - o **Development Tools:** Git Version Control, Linux Command Line, MVC Architecture
  - o **Soft Skills:** Team Leadership, Project Planning & Execution, Technical Communication, Agile Methodologies

CERTIFICATIONS & HONORS

- **HackerRank Java Programming Certificate** | *Intermediate Level*
- **Competitive Programming Excellence:** 200+ Problems Solved (CodeForces, LeetCode)
- **Algorithm Design Proficiency:** Top 15% in coding competitions
- **Technical Leadership:** NCC Cadet (2020-2022) - Leadership Development & Team Management