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**. 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

### **Diploma** **in Computer Science and Technology** | **The Calcutta Technical School** | **OGPA:** 8.7 | 2022 – 25

# Professional projects

1. **BookMyShow Backend Service |** Spring Boot, Hibernate, MySQL, Redis, Elasticsearch, Stripe, AWS Elastic Beanstalk
   * Built **complete movie booking system** with seat reservation and payment integration
   * Implemented **concurrency-safe booking** with optimized caching and auto-scaling deployment
   * Achieved **comprehensive testing** with automated CI/CD pipeline
2. **IRCTC Ticketing System |** Spring Cloud Gateway, Eureka Service Discovery, Kafka, MySQL, Cassandra
   * Designed **scalable microservices** with User, Booking, Payment, and Notification services
   * Implemented **SAGA-based distributed transactions** and event-driven architecture
   * Configured **database sharding** and disaster recovery mechanisms
3. **Parking Lot Management System |** Java, Design Patterns (Factory, Strategy), JUnit, Mockito
   * Applied **SOLID principles** with comprehensive UML documentation
   * Developed **dynamic slot allocation** for multiple vehicle types with optimization algorithms
   * Achieved **90%+ test coverage** with performance benchmarking

# TECHNICAL EXPERTISE

**PRIMARY SKILLS**

* **Programming Languages:** **Java (Advanced)**, Python (Intermediate), C (Intermediate)
* **Enterprise Frameworks:** **Spring Boot**, **Spring Cloud**, **Spring Security**, **Hibernate ORM/JPA**
* **Database Technologies:** **MySQL (Advanced)**, **Redis Caching**, **Elasticsearch**
* **System Architecture:** **Microservices Design**, **RESTful API Development**, **Event-Driven Architecture**
* **Cloud & DevOps:** **AWS Services (EC2, RDS, Elastic Beanstalk)**, **Docker Containerization**
* **Message Queuing:** **Apache Kafka**, Distributed Messaging Systems
* **Core Competencies:** **Data Structures & Algorithms**, **Object-Oriented Programming**, **Design Patterns**

**SECONDARY SKILLS**

* **Databases:** **Cassandra (NoSQL)**, Advanced Database Optimization
* **Additional Frameworks:** **Spring Cloud Gateway**, **Eureka Service Discovery**
* **Authentication:** **OAuth2**, **JWT Token Management**
* **Testing Frameworks:** **JUnit**, **Mockito**, Integration Testing
* **Development Tools:** **Git Version Control**, Linux Command Line, **MVC Architecture**
* **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