

# Bisway Singha

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## PROFESSIONAL SUMMARY

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Software Engineer (2025 Graduate) specializing in Java and Spring Boot, focused on building scalable, production-ready backend systems. Experienced in designing secure APIs using Spring Security, debugging and resolving backend issues, and optimizing performance through Redis caching and SQL indexing. Solved 200+ Data Structures and Algorithms problems, with a strong focus on optimal time and space complexity.

## TECHNICAL SKILLS

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**Languages:** Java, JavaScript, Python, SQL

**Backend & Systems:** Spring Boot, REST API, Microservices, System Design (Basics), Authentication, Authorization, Caching, Rate Limiting, JUnit

**Frontend:** HTML, CSS, React.js

**Databases:** MySQL, PostgreSQL, MongoDB, Firebase

**Cloud & DevOps:** AWS, GCP, Railway, Docker (Basics), Kafka, CI/CD, Git

**Tools:** Postman, Jira, Logging, Monitoring

## EXPERIENCE

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### Software Engineering Intern

Sep 2023 – Dec 2023

*Sovratec International, Inc*

- Contributed new backend features to two live products "Case Manager and Inventory Management System" improving usability and operational efficiency for end users.
- Optimized database queries and indexing strategies to improve data retrieval performance, reducing query response time by approximately 60% and enhancing search functionality.
- Collaborated with cross-functional Agile teams to analyze issues, discuss solutions, and deliver feature improvements in a timely manner while following clean code and version control practices.

## PROJECTS

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### Scalable Sports Data Backend Platform

Oct 2025 – Nov 2025

*Java, Spring Boot, JWT, Redis, PostgreSQL, GitHub Actions*

- Designed and deployed a scalable Spring Boot backend on Railway Cloud, exposing 14 RESTful APIs following clean layered architecture.
- Implemented Spring Security with JWT-based stateless authentication and OAuth 2.0 for secure third-party login and role-based access control.
- Integrated Redis caching and API rate limiting to reduce database load and prevent abuse, optimizing SQL queries to achieve 50% faster data retrieval.
- Built the system to handle 1,000+ daily users while maintaining consistent response times and scalability readiness.
- Automated build, test, and deployment workflows using GitHub Actions CI/CD, reducing manual effort and improving deployment reliability.

### EuroCloth – E-Commerce Platform

Jul 2025 – Sep 2025

*Firebase Authentication, Firestore, JavaScript*

- Designed and deployed an e-commerce web application using Firebase as a Backend-as-a-Service (BaaS), significantly accelerating development and reducing manual backend maintenance efforts.
- Implemented Firebase Authentication and Firestore to manage users, products, and orders with secure access control and optimized data access patterns.
- Applied pagination and query optimization techniques to reduce frontend load and improve page performance, resulting in a 45% faster and smoother user experience.
- Developed Firebase Cloud Functions to handle transactions, role assignment, and automated email notifications, ensuring secure processing of sensitive operations and improved user trust.

## EDUCATION

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### Bengal College of Engineering and Technology

*Bachelor of Technology in Computer Science and Engineering (CGPA: 7.83)*

West Bengal, India

Aug 2021 – Jun 2025