

# HARSHIT BANSAL

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## Profile Summary

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Software Developer with more than 2 years of professional experience at the Bombay Stock Exchange, working on real-time trading systems using C, C++, FIX Protocol, Socket Programming, and Solace API. Since April 2025, learning and building applications in Java Backend Development, including Spring Boot, Hibernate, Spring Data JPA, Spring Security, Kafka, Docker, and CI/CD with Jenkins. Interested in applying programming knowledge to build scalable backend applications with reliable data handling.

## Technical Skills

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**Programming Languages:** Java, C, C++, SQL

**Frameworks Libraries:** Spring Boot, Spring Data JPA, Spring Security, Hibernate, JDBC, MFC

**Databases:** MySQL, PostgreSQL, MongoDB, Redis

**Messaging Communication:** Kafka, FIX Protocol, Solace API, Socket Programming, WebSockets

**Web Services:** RESTful APIs

**Concepts:** OOPS, Data Structures Algorithms, Exception Handling, Multithreading, Networking Protocols, Stream API

**Tools:** Git, GitHub, Jenkins, Docker, Maven, SVN, Visual Studio

## Education

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**Masai School**

*Software Development Course*

**02/2022 – 12/2022**

*Bangalore, India*

**Laxmi Chand Katori Devi**

*Bachelor of Science (B.Sc.) Mathematics*

**08/2016 – 10/2020**

*Hathras, India*

## Work Experience

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**Bombay Stock Exchange (BSE)**

*Software Developer*

**03/2023 – 04/2025**

*Mumbai, India*

- Developed a high-performance socket-based communication system, increasing message throughput by 30% and reducing latency by 20ms.
- Built FIX protocol-based integration systems for automated trading, processing 25K+ orders per second with 99% reliability.
- Established Solace API-based messaging, improving system uptime and ensuring zero data loss in high-volume transactions.
- Collaborated with 10+ engineers to deliver three major releases, enhancing system performance by 40%.
- Reduced critical UAT and production issues by 90% through continuous monitoring and timely bug fixes.

## Projects

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**Hospital Management System**

*Technologies Used: Java, Spring Boot, Spring Security, JWT, OAuth, Hibernate, Spring Data JPA, PostgreSQL*

- Built a hospital management system to handle patients, Insurance, doctors, and appointments.
- Added role-based authentication and authorization with Spring Security.
- Designed REST APIs for managing hospital operations.
- Used Hibernate ORM and JPA for reliable database interactions.

**VibeLink – Real-Time Chat Application**

*Technologies Used: Java, Spring Boot, WebSockets, MongoDB, Maven, HTML, CSS, JavaScript*

- Created a room-based chat system similar to Discord.
- Used WebSockets for real-time communication between server and clients.
- Supported room creation, joining, leaving, and instant message broadcasting.
- Stored chat history and user session data in MongoDB.