

# HARSHIT BANSAL

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## Technical Skills

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

**Backend & Frameworks:** Spring, Spring Boot, Spring Data JPA, Spring JDBC, OAuth 2.0, Microservices, MFC

**Databases & Storage:** MySQL, Redis

**Messaging & Communication:** RESTful APIs, FIX Protocol, Solace API, Socket Programming

**Cloud & DevOps:** AWS(EC2, RDS, Secrets Manager), Docker, GitHub Actions

**Logging & Testing:** Log4J, JUnit, Mockito, Unit Testing, Sonar

**Core Concepts:** OOPS, Data Structures & Algorithms, Exception Handling, Multithreading, Design Patterns

**Development Practices:** Jira, Agile Methodology, Scrum, **AI-assisted Pair Programming**(GitHub Copilot)

**Build, Tools & Version Control:** Maven, Git, BitBucket, SVN, Eclipse, DBeaver, Visual Studio, Postman, Swagger, Lombok, MobaXterm

## Work Experience

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### HulkHire Tech

*Java Developer Trainee*

**Oct 2025 – Present**

*Hyderabad, India*

- Integrated **PayPal Standard Checkout** using **Spring Boot** by implementing **Create Order** and **Capture Order** APIs, handling request/response validation, and ensuring accurate **payment status handling** across success, pending, and failure states.
- Added **OAuth 2.0 Client Credentials** authentication with Redis-based token caching, and implemented lightweight **retry + circuit breaker mechanism** to stabilize external API communication.
- Stored payment lifecycle and order data using **Spring JDBC + MySQL**, supported deployment on **AWS EC2 with RDS**, and wrote **JUnit/Mockito** test cases to validate end-to-end workflows.

### Bombay Stock Exchange (BSE India)

*Software Developer*

**Mar 2023 – Apr 2025**

*Mumbai, India*

- Developed a high-performance **socket-based communication** system to handle market data, improved message throughput and reduced latency.
- Built **FIX protocol**-based integration systems for trading, processing **25K+ orders/sec** with 99% reliability.
- Established **Solace API**-based messaging, improving system up-time and ensuring zero data loss in high-volume transactions.
- Collaborated with 10+ engineers to deliver three major releases, enhancing system performance.
- Reduced critical **UAT** and **PROD** issues by 90% through continuous monitoring and timely bug fixes.

## Education

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### Masai School

*Software Development Course*

**Feb 2022 – Dec 2022**

*Bangalore, India*

### Laxmi Chand Katori Devi

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

**Aug 2016 – Oct 2020**

*Hathras, India*

## Projects

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### PayPal Integration System

**Technologies Used:** Java, Spring Boot, Microservices, Redis, OAuth 2.0, MySQL, AWS

- Built a backend payment service implementing the full **Create Order → Capture Order** workflow using **PayPal REST APIs** with structured request/response models and lifecycle tracking.
- Implemented **OAuth 2.0 Client Credentials authentication**, **Redis token caching**, and a simple **circuit breaker + retry strategy** to improve stability during external API delays.
- Designed clear error responses, added basic **exception handling**, and deployed the service on **AWS EC2 with MySQL (RDS)** storing order and transaction data.