

HARSHIT BANSAL

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Profile Summary

Software Developer with 2+ years of experience building trading systems and backend applications. Skilled in Java, Spring Boot, and C for developing socket-based communication systems and FIX protocol integrations. Currently transitioning to Java backend development with focus on microservices architecture and cloud technologies.

Technical Skills

Languages: Java, C, C++, SQL

Technologies & Tools: Spring, Spring Boot, Microservices, MySQL, Redis, RESTful API, AWS, EC2, Secrete Manager, FIX Protocol, Socket Programming, Solace API, Maven, Git, GitHub, Postman, Swagger, Jira, BitBucket, AI-assisted Pair Programming(GitHub Copilot)

Work Experience

HulkHire Tech

Java Developer

Oct 2025 – Nov 2025

Hyderabad (Remote), 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 life-cycle and order data using Spring JDBC + MySQL, supported deployment on AWS EC2 with RDS.

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.

Career Transition

Independent Software Developer

Apr 2025 – Sept 2025

Hathras, India

- Focused on moving from C/C++ systems development to Java Backend Development, completed hands-on learning in Core Java, Spring Boot, Microservices, RESTful APIs, and SQL along with building projects

Projects

- **PayPal Integration System(2025):** Implemented PayPal REST APIs for Create Order and Capture Order workflow with OAuth 2.0 authentication and Redis token caching. Built circuit breaker and retry mechanism for API stability, deployed on AWS EC2 with MySQL (RDS) for transaction management
- **Message-Oriented Middle-Ware: Solace Pub/Sub Framework(2024):** Developed a Solace Publisher for high-volume real-time market updates. Implemented a Subscriber for reliable message consumption and processing.
- **FIX Protocol Communication Suite(2023):** Built a FIX Client to initiate sessions, send orders, and process exchange acknowledgments. Developed a FIX Server to validate FIX Messages and maintain session states.

Education

Masai Institute

Computer Science

Feb 2022 – Jan 2023

Bangalore, India

Relevant Coursework: Object Oriented Programming, Databases, Data Structures and Algorithms, Operating Systems, Computer Networks, Microservice Architecture, Software Development Life Cycle (SDLC), Software Development Methodologies

Dr Bhim Rao Ambedkar University

Bachelor of Science (B.Sc.) Mathematics

Aug 2016 – Oct 2020

Hathras, India