# SATYAJIT BHOSALE

Software Development Engineer | Java Full Stack | Microservices | Spring Boot | AWS

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## PROFESSIONAL SUMMARY

**Java Full Stack Developer** with **3+ years** of experience designing, building, and scaling production-grade microservices on **Java 17, Spring Boot 3, and AWS**. Delivered measurable outcomes: **30% API performance improvement, 85% unit test coverage**, and **80% reduction in deployment failures** through CI/CD automation. Proficient in event-driven architecture (**Apache Kafka**), JWT/OAuth2 security, Hibernate/JPA optimization, Redis caching, and container orchestration (**Docker, Kubernetes**). Actively leverages **AI coding assistants (Claude, ChatGPT, GitHub Copilot)** to accelerate development, debugging, and documentation. Proven ability to lead technical delivery, mentor junior developers, and collaborate in Agile/Scrum environments.

## CORE COMPETENCIES

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|---|---|
| **Languages** | Java 17, SQL, GoLang, C++ |
| **Backend** | Spring Boot 3, Spring MVC, Spring Cloud, Spring Data JPA, Hibernate, Spring Security, Lombok |
| **Frontend** | React.js, Chart.js, WebSocket |
| **Architecture** | Microservices, RESTful APIs, Event-Driven Architecture, System Design, SOLID, DRY, MVC, Load Balancing |
| **Databases** | MySQL, PostgreSQL, MongoDB, Redis |
| **Cloud & DevOps** | AWS (EC2, S3, RDS, CloudWatch, IAM), Docker, Kubernetes, Jenkins, GitLab CI/CD, GitHub Actions, Terraform, Maven |
| **Security** | JWT, OAuth2, Spring Security, AES-256, RSA Encryption |
| **Messaging** | Apache Kafka, RabbitMQ |
| **Testing & Quality** | JUnit 5, Mockito, Postman, Swagger/OpenAPI, SonarQube |
| **Monitoring & Observability** | AWS CloudWatch, Prometheus, Grafana, ELK Stack |
| **AI & Productivity Tools** | Claude, ChatGPT, GitHub Copilot (AI-assisted coding, debugging, and code review) |
| **CS Fundamentals** | Data Structures & Algorithms, OOP, DBMS, Computer Networks, Operating Systems |
| **Tools & Methods** | Git, GitHub, IntelliJ IDEA, VS Code, JIRA, Agile, Scrum |

## PROFESSIONAL EXPERIENCE

### Rapportsoft Consulting & Technology Pvt. Ltd. | Software Development Engineer – Java Full Stack

*May 2023 – Present | Pune, India*

- **Reduced API response time by 30%** by restructuring Hibernate/JPA queries with composite indexing, implementing Redis caching, and redesigning MySQL indexes across production microservices.
- **Improved backend throughput by 25%** through JVM tuning, connection pool optimization, and multithreading refactors using the Java Executor framework under peak load conditions.
- **Cut release cycles from 2 weeks to 3 days** and reduced deployment failures by 80% by containerizing microservices with Docker and orchestrating on AWS EC2 via Kubernetes and Jenkins CI/CD pipelines.
- **Designed horizontally scalable service architecture** supporting 10,000+ concurrent users by applying load balancing, stateless session design, and SOLID principles across new microservices.

- **Secured 12 REST endpoints** using Spring Security with JWT and OAuth2 for stateless authentication and RBAC, eliminating all unauthorized access incidents.
- **Achieved 85% unit test coverage** via JUnit 5 and Mockito test suites, reducing production bug rate by 60% over 6 months.
- **Integrated Apache Kafka** across 4 microservices for event-driven communication, processing 5,000+ events/day with zero message loss.
- **Authored Swagger/OpenAPI docs** for 35+ REST endpoints, reducing front-end integration time by 30%.
- **Leveraged AI coding assistants (Claude, ChatGPT, GitHub Copilot)** for code generation, debugging, and code review, accelerating feature delivery.
- **Mentored junior developers** on Spring Boot best practices, code reviews, and CI/CD workflows, and partnered with product and QA stakeholders during sprint planning to improve team delivery velocity.

## KEY PROJECTS

### AI-Powered Market Intelligence & Analytics Platform (MIAP)

Jan 2026 – Present

***Tech Stack:*** *Java 17, Spring Boot 3, Spring Security, JWT, MySQL, Redis, React.js, Chart.js, Docker*

- **Designed Spring Boot REST APIs** for market data ingestion and AI-driven analytics pipelines supporting concurrent multi-user access with high availability.
- **Built AI/ML predictive modeling module** analyzing historical stock data to surface investment opportunities and sector-wise performance trends.
- **Accelerated development using AI coding assistants** (Claude, ChatGPT, GitHub Copilot) for code generation, debugging, and architecture review, shortening iteration cycles.
- **Reduced data retrieval latency by 40%** through Redis caching and optimized database schema design; containerized full stack with Docker for cloud-ready deployment.
- **Developed React.js + Chart.js dashboards** for real-time visualization of stock performance, technical indicators, and market summaries with role-gated access via Spring Security RBAC + JWT.
- **Engineered modular service layer** following SOLID and DRY principles, enabling independent scaling of the ingestion, analytics, and dashboard components.

### Bonded Warehouse Management System (BWMS)

Jun 2023 – Dec 2025

***Tech Stack:*** *Java 17, Spring Boot 3, Spring Cloud, JWT, OAuth2, Kafka, Docker, Kubernetes, AWS, MySQL, Redis, React.js*

- **Architected Spring Cloud microservices** with Eureka Service Discovery, API Gateway, and Config Server — enabling zero-downtime deployments across 6 independent services.
- **Implemented multi-role RBAC system** (Admin, Warehouse Manager, Customs Officer, Transporter) with JWT + OAuth2 and auto-generated role-scoped login IDs; secured data with RSA/JKS and AES-256 encryption.
- **Integrated Apache Kafka event streaming** across inventory, customs, and logistics services — processing 5,000+ events/day with guaranteed delivery and zero data loss.
- **Built WebSocket real-time notifications** reducing manual follow-up workload by 70%; centralized observability with AWS CloudWatch, reducing MTTR by 45%.
- **Collaborated cross-functionally** with customs and logistics stakeholders to translate compliance requirements into role-based system workflows, ensuring on-time regulatory sign-off.

## TECHNICAL IMPACT HIGHLIGHTS

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|---|---|
| **30% Faster API Response Times** | Hibernate/JPA query optimization, composite indexing & Redis caching |
| **25% Higher Backend Throughput** | JVM tuning, connection pooling & Java Executor multithreading |
| **80% Fewer Deployment Failures** | Docker containerization with Kubernetes & Jenkins CI/CD pipelines |
| **85% Unit Test Coverage** | JUnit 5 & Mockito test suites across production microservices |
| **40% Lower Data Retrieval Latency** | Redis caching & optimized database schema design (MIAP) |
| **70% Less Manual Follow-Up Work** | WebSocket real-time notifications (BWMS) |
| **5,000+ Events/Day, Zero Loss** | Apache Kafka event-driven streaming across microservices |
| **10,000+ Concurrent Users Supported** | Horizontally scalable architecture with load balancing & SOLID design |

## EDUCATION

**Savitribai Phule Pune University — B.E. Computer Science** | 2019 – 2023

**Coursework:** Data Structures & Algorithms, DBMS, Operating Systems, Computer Networks, OOP, Software Engineering

## CERTIFICATIONS

- Java & Spring Boot Microservices — Coursera (2023)
- SQL Advanced — HackerRank (2023)
- MongoDB Basics — MongoDB University (2022)
- Agile with Jira — Atlassian (2023)
- Java Programming — Sololearn (2022)

## ADDITIONAL INFORMATION

- Proficient in AI-augmented development workflows: using Claude, ChatGPT, and GitHub Copilot for code generation, debugging, and documentation
- Languages: English (Professional)
- Availability: Immediate joiner | Open to full-time, hybrid, and remote opportunities
- Interests: System Design, Open-Source Contribution, AI/ML in FinTech, Cloud Architecture