

# UJVAL MADHUKAR BOROLE

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## Skills

C++ | Core Java | Spring | Spring Boot | Microservices | Kafka | RabbitMQ | Redis | MySQL | Postgres | MongoDB | Jenkins | Docker | Kubernetes | Design Patterns | JavaScript | ReactJS

## Work Experience

- Tata Consultancy Services (National Stock Exchange - Client)** Mumbai, India  
*Software Engineer* | Java, Spring Boot, Microservices, Ignite, Jenkins, Kafka, Chronicle, Kubernetes Jan'2025 – Present
- Delivered sub-millisecond, 99.99% uptime market data broadcasting across all NSE segments via **Hercles**, enhancing real-time visibility for millions of users.
  - Enabled high-throughput trade processing of millions of orders/second using **Apache Ignite** and optimized batching logic for near-zero latency.
  - Built a Porting Domain Service to stream real-time and historical trade data from the core subsystem to **Hercles' Market Data Generator**, eliminating data gaps and improving broadcast reliability by 30%.
  - Reduced latency by 40% using a hybrid communication architecture — **Kafka** (inter-service), **Chronicle RingBuffer** (intra-module), and **Chronicle IPC** (recovery).
  - Accelerated releases by 25% with Jenkins-based CI/CD pipelines in Linux (RHEL) Kubernetes, ensuring zero downtime deployments.

- Aapliweb** Jalgaon, India  
*Software Development Intern* | Java, Spring Boot, MySQL, Bootstrap, Flutter Sep'2022 – Dec'2022
- Enhanced an eCommerce platform by developing new Spring Boot modules and redesigning MySQL schema, improving data consistency and query performance by 30%.
  - Developed a cross-platform fertilizer sales application using Spring Boot and Flutter, reducing manual record-keeping by 40%.

## Projects

- Job Scheduling and Execution** Jun'2025 – Present  
GitHub: [github.com/UjvalBorole/Job-Scheduler-Executor](https://github.com/UjvalBorole/Job-Scheduler-Executor)
- Designed and developed a distributed job scheduling system using Spring Boot microservices, supporting cron, manual, and interval-based triggers for workflow orchestration.
  - Implemented asynchronous inter-service communication with Kafka for pub-sub, batching, retries, and replay, ensuring resilient event-driven workflows.
  - Optimized scheduling performance with Redis-based priority queues and real-time job tracking, improving throughput by 40%.
  - Integrated PostgreSQL and MongoDB with sharding for high availability and scalable load balancing, applying microservice design patterns — API Gateway, Circuit Breaker, Retry, and Fallback.
  - Deployed via Docker & Kubernetes using Jenkins CI/CD pipelines, reducing downtime by 35% and adding observability via Prometheus & Grafana.

- Granthalaya** Sep'2024 – Nov'2024  
GitHub: [github.com/UjvalBorole/Granthalaya](https://github.com/UjvalBorole/Granthalaya)
- Developed a full-stack library management web application using React.js, Spring Boot, and MySQL, enabling seamless book browsing and reading.
  - Implemented secure Google OAuth-based authentication for session management and user data protection, improving personalization.
  - Designed scalable REST APIs and dynamic frontend architecture supporting real-time book updates and production-ready deployment.

## Academic and Extracurricular Achievements

- Solved 350+ problems on LeetCode ([leetcode.com/u/boroleujval4](https://leetcode.com/u/boroleujval4)) and 300+ on GeeksforGeeks ([geeksforgeeks.org/user/zaccode](https://geeksforgeeks.org/user/zaccode)), ranked Top 8 in college.
- Secured Top 15 College Rank in Smart India Hackathon 2022 & 2023 with projects on Hospital Bed Management System and Mental Health App.

## Education

Shram Sadhana College of Engineering, Jalgaon, India  
Bachelor of Computer Engineering | CGPA: 8.39/10

2021 – 2024