

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

- **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

- **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) and **300+ on GeeksforGeeks** ([geeksforgeeks.org/user/zaccode](https://www.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 2021 – 2024
Bachelor of Computer Engineering | CGPA: 8.39/10