

Sanrupt Potphode

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Professional Summary

Backend Developer specializing in high-performance **distributed systems** using **Java, Spring Boot**, and **Microservices**. Experienced in **scalable cloud workflows** for **real-time applications** and **video transcoding**.

Education

Veermata Jijabai Technological Institute

B.Tech in Electronics and Telecommunication Engineering

CGPA: 7.50/10.0

Aug 2023 - May 2027

Mumbai, Maharashtra

Projects

Doodle-Sync - Real-Time Multiplayer Drawing Game 🚀 *Spring Boot 3.5, Kafka, Redis, WebSocket, Docker*

- Architected **7 microservices** via **Spring Cloud Gateway**, using **Resilience4j** circuit breakers for fault-tolerant **Feign** calls.
- Achieved **p99 < 1ms latency** via **WebSocket STOMP**, routing strokes through **Redis Pub/Sub** while reserving **Kafka** for durable events.
- Implemented a 5-state game machine with **time-decay scoring** and **Levenshtein-based** near-miss guess detection.
- Secured WebSockets using a **Redis-backed ticketing system** (30s TTL) to safely bridge standard **JWT authentication**.

Vortex - Video Streaming Platform 🚀 *Spring Boot 3.5, PostgreSQL, AWS S3/DO Spaces, Spring Security, Next.js*

- Built an **async video pipeline** in **Java 21** using **ExecutorService**, eliminating timeouts via background transcoding.
- Implemented **Adaptive Bitrate streaming** using **FFmpeg filter_complex**, generating 360p/720p HLS renditions with auto quality switching.
- Parallelized S3 uploads with **CompletableFuture.allOf()**, reducing post-transcode upload time from **120s** to **20s**.
- Secured 10+ REST endpoints using **JWT** and **Spring Security**, with a **GlobalExceptionHandler** to prevent data leakage.
- Hosted on **DigitalOcean** with 2GB swap space and PostgreSQL tuning, eliminating 100% of OOM crashes during transcoding.

HireLyze - AI-powered Hiring Platform 🚀

React, Express, Supabase, Google GenAI, Redis

- Engineered an AI matcher processing **1,000+** resumes via **Google GenAI** and **cosine similarity**, achieving 90%+ alignment accuracy.
- Developed a **Redis-backed parsing pipeline** for PDF/DOCX formats, increasing background job throughput by **3x**.
- Integrated serverless APIs and **Supabase** for 300+ job postings, ensuring **99.9% uptime** through real-time data sync.

Technical Skills

Languages: Java, C++, Python, JavaScript/TypeScript

Backend & Frameworks: Spring Boot, Node.js, Express, Next.js, React

Databases & Caching: PostgreSQL, MongoDB, Redis, Supabase

Distributed Systems & Cloud: Kafka, WebSocket (STOMP), AWS S3, DigitalOcean, FFmpeg

Observability & Tools: Prometheus, Grafana, Zipkin, Git, GitHub

Certifications & Achievements

Data Structures, Algorithms & Algorithmic Thinking

- **CodeChef:** 3★ Coder on CodeChef attaining highest rating of 1608 (Top 25%).
- **LeetCode:** Tackled more than 600 problems, reaching a peak of 1687 (Top 15% globally).
- **Codeforces:** Pupil on Codeforces. Completed over 200 challenges, peaking at 1275 (Top 60% globally).
- **Code360:** Solved more than 300 problems on Code360.

Leadership & Extracurricular Activities

Class Representative - ExTC

Veermata Jijabai Technological Institute (VJTI)

Jul 2024 - Present

Mumbai, Maharashtra

Competitive Programming (CP) Club TY Core Member

Community of Coders (COC), VJTI

Aug 2025 - Present

Mumbai, Maharashtra

Inheritance - Mentor

Community of Coders (COC), VJTI

Oct 2025 - Present

Mumbai, Maharashtra