

Parth Singh

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EXPERIENCE

Software Developer

Aug. 2025 – Present

SFS PVT LTD

Delhi, India

- Engineered a Spring Boot employee system for 800+ users, utilizing REST APIs, JPA, and PostgreSQL with RBAC to ensure secure access control.
- Designed React dashboards for real-time attendance tracking, seamlessly integrated with backend REST APIs to improve operational visibility.
- Constructed a Java and Apache POI pipeline to process attendance logs, resolving missing and duplicate records across enterprise data sources.
- Streamlined enterprise workflows for clients like Haldiram and Emaar, replacing manual effort to ensure absolute data accuracy and compliance.

PROJECTS

Intend - Intent-Driven API Client | *Java, Spring Boot, JavaFX, REST APIs*

[Live](#) | 

- Created a native API testing tool in Spring Boot, automating HTTP headers, authentication, and payloads for streamlined developer workflows.
- Architected an intent-based header resolution engine, eliminating manual token management for complex, multi-step enterprise API workflows.
- Integrated idempotency with retry logic and GitHub Actions CI/CD, boosting deployment efficiency by 30% across targeted environments.

Korix AI-Powered SRE Sandbox | *Spring Boot, Docker, Picocli, LangChain4j*



- Built an isolated benchmark harness with per-run Docker networks, throwaway PostgreSQL, hardened containers, and 10 reproducible infrastructure and code-level faults.
- Developed a LangChain4j ReAct agent with 9 sandboxed tools and provider-neutral LLM support, enforcing path containment before shell execution.
- Implemented independent oracle-based evaluation with transcript verification and a 6-dimension scorecard, validated through 141 tests including real-Docker integration tests.

Drowly - Real-Time Multiplayer Game | *Spring Boot, WebSockets, React*

[Live](#) | 

- Built a multiplayer drawing game in Spring Boot and React, achieving synchronized WebSocket canvas strokes across concurrent client sessions.
- Orchestrated server state management with automatic room cleanup, late joiner sync, and REST API fallbacks to maintain uninterrupted gameplay.
- Implemented turn-based game logic with configurable scoring multipliers, time-based bonuses, and smart hints to drive competitive user engagement.

OPEN SOURCE CONTRIBUTIONS

OpenMRS | *Core Security Patching, Java*



- Merged multiple PRs for a globally adopted EMR platform, patching critical log and shell injection vulnerabilities via robust data sanitization in initialization scripts.

TECHNICAL SKILLS

Languages: Java, SQL, C++, Python, JavaScript

Backend Frameworks: Spring Boot, Spring Data JPA, Hibernate, REST APIs, WebSockets (STOMP)

Databases: PostgreSQL, MySQL, SQLite, Relational Database Design

Frontend: React.js, Tailwind CSS, HTML, CSS

DevOps & Tools: Docker, Git, GitHub Actions (CI/CD), Maven, Testcontainers, IntelliJ IDEA, Postman

ADDITIONAL HIGHLIGHTS

- Algorithmic Problem Solving:** Rated **1100+** on [Codeforces](#) with consistent optimization experience on [LeetCode](#).
- Technical Leadership:** Member, **NameSpace BPIT** (Feb 2025 - Present) Organized events for 2000+ members.

EDUCATION

Guru Gobind Singh Indraprastha University

Delhi, India

B.Tech in Information Technology | CGPA: 8.5/10

Aug. 2024 – May 2028