AVIEK PAUL

Java Full Stack Developer — Java | Spring Boot | ReactJS | TypeScript

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SUMMARY

Java Full Stack Developer with **4.5+ years** of experience building scalable, enterprise-grade **Java (multithreading) / Spring Boot** services and **React.js + TypeScript** web applications for real-time industrial analytics platforms. Strong in **REST web services, Oracle / SQL / PL/SQL, transaction management, performance optimization, responsive design** and **secure application design** (JWT, RBAC, AES-256) for global manufacturing clients.

EXPERIENCE

TCG Digital Solutions Pvt. Ltd., *Senior Software Developer* 01/2026 – Present | Kolkata

- Re-engineered a legacy **Spring Boot** transaction engine with optimized **transaction management** and persistence design, cutting multi-entity persistence latency from **60 s to under 5 s**.
- Built a high-throughput **Elasticsearch** ingestion pipeline handling **100,000+ records/minute** at sub-2-second latency.
- Engineered a real-time **KPI calculation engine** in **Java / Spring Boot** processing minute-level data across **500+ KPI definitions**, with automated daily recalculation and idempotent historical backfill.
- Built a self-service **Custom KPI Builder** used by **20 plant admins** across 10 technology areas; live-preview engine evaluates formulas over 30 days of minute-level data in 2–3 s.
- Redeveloped the "Turnaround" platform in **ReactJS 18 + TypeScript** with React Query server-state caching, cutting data load time from **4 minutes to under 5 seconds** (~98%).
- Built a drag-and-drop **Dashboard Builder** over 500+ KPIs with chart-level configuration and JSON import/export.
- Architected a **responsive** UI with code splitting and lazy loading, improving First Contentful Paint by **40%**.
- Participated in **code reviews**, sprint planning and knowledge-sharing sessions; provided **production support** with root-cause analysis (**JIRA, GitLab**)

TCG Digital Solutions Pvt. Ltd., *Software Developer* 04/2022 – 12/2025 | Kolkata

- Improved database performance by ~**60%** via **JPA/Hibernate** indexing and caching on SQL datasets of 100K+ rows.
- Delivered a dynamic **KPI Formula Engine** executing complex expressions in under 1 s across 30+ plant metrics.
- Revamped plant-monitoring UI with **RxJS** stream management, dropping screen response times from 5 s to **under 100 ms**.
- Built a reusable **20+ widget design system** adopted across 13+ projects, accelerating front-end delivery by roughly a third.
- Optimized **ECharts** rendering, trimming main-thread blocking by 70% for smooth 60 FPS data visualization.
- Automated boilerplate code generation for **15+ internal modules**, halving manual coding effort while standardizing architecture and best practices.

FEATURED PROJECTS

TalkSphere — Real-Time Chat Platform, *React · Redux · Node.js · Socket.IO · MongoDB · JWT · AES-256-CBC*

- Scaled an event-driven Socket.IO layer supporting **500+ concurrent socket events** with sub-50ms delivery and zero-packet-loss presence tracking.
- Security: AES-256-CBC encryption at rest with per-message IVs; stateless **JWT** authentication with silent sliding-window refresh.

ATS — Hiring Management Platform, *React · REST API · Role-Based Access Control · Cloud Object Storage*

- Built a full-stack Applicant Tracking System solo in **72 hours** (UI, **REST APIs**, database) covering requisitions, CV upload, interviews, feedback and onboarding; **top 5** in a company-wide hackathon.
- Implemented **role-based access control** gating actions and navigation, plus a centralized API layer for auth-token injection and global error handling.

SKILLS

Backend: Java, Multithreading, Spring Framework, Spring Boot, Microservices, **REST Web Services,** JPA/Hibernate, JWT, Transaction Management

Frontend: React.js, TypeScript, JavaScript (ES6+), HTML5, CSS3, Redux Toolkit, React Query, RxJS, Angular, ECharts, Tailwind CSS

Database: SQL, PL/SQL, **PostgreSQL**, **MySQL**, Elasticsearch, MongoDB

Tools: IntelliJ IDEA, **JIRA**, **Git**, GitLab, Maven, **Docker**, **Postman**, Vite

LLM: Claude, ChatGPT, Gemini

EDUCATION

B.E. in Computer Science, *B. P. Poddar Institute of Management & Technology* 2018 – 2022
CGPA 9.25/10

LANGUAGES

English, Hindi, Bengali