

Pawan Verma

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Professional Summary

Backend-Heavy Full-Stack Engineer with **2.5+** years of experience architecting distributed systems, event-driven microservices, and secure enterprise applications using **Java, Spring Boot, Apache Kafka, Redis, PostgreSQL/MySQL**, and **React / React Native**. Demonstrated expertise in building high-throughput REST APIs, transactional outbox pipelines, distributed locking/idempotency, and database performance tuning. **LeetCode Knight (Top 4%)** with strong foundations in concurrency, data structures, and system design.

Technical Skills

- **Languages:** Java (8/17/21/25), SQL, TypeScript, JavaScript, C++
- **Backend Frameworks & Core:** Spring Boot, Spring Data JPA, Hibernate ORM, Spring Security, Spring Batch, RESTful APIs, Microservices, Modular Monolith, Virtual Threads (Project Loom), Concurrency
- **Distributed Systems & Messaging:** Apache Kafka, Redis, Transactional Outbox Pattern, Event-Driven Architecture, IBM MQ
- **Databases & Storage:** PostgreSQL, MySQL, Apache Impala, Database Indexing, Query Optimization
- **Frontend & Mobile:** React.js, React Native, TypeScript, Tailwind CSS, Expo Framework, Redux / Context API
- **DevOps, Testing & Security:** Docker, Git, Maven, JUnit 5, Mockito, Postman, Swagger/OpenAPI, JWT, Firebase, VAPT Remediation

Professional Experience

Accenture Solutions Private Limited

May 2026 – Present

Packaged App Development Analyst

Mumbai, India

- Serve as **L3 escalation engineer** for enterprise **Java** and **Spring Boot** microservices in production, conducting deep root-cause analysis (RCA), thread/heap dump profiling, and critical bug fixes to maintain **99.9%+ application uptime**.
- Streamline feature delivery and hotfixes via automated unit/integration testing with **JUnit 5** and **Mockito**, while conducting rigorous peer code reviews to ensure system stability.

Tata Consultancy Services

January 2024 – April 2026

Assistant System Engineer – Full-Stack Developer

Mumbai, India

- Engineered **30+ secure REST APIs** using **Java** and **Spring Boot** for a regulated financial data filing platform serving **10,000+ institutional users**, enforcing **Role-Based Access Control (RBAC)** and maker/checker approval workflows.
- Designed and scheduled **Spring Batch** pipelines syncing **2M+ records per batch run** from **Apache Impala** to **MySQL**, tuning chunk sizes and bulk database writes for maximum throughput.
- Optimized high-volume **SQL queries, indexes, and execution plans**, slashing report generation latency by **40%+**.
- Developed and shipped a public **React Native mobile application** featuring responsive UI and **interactive data visualizations** (charts/dashboards), seamlessly interfacing with Spring Boot REST endpoints.
- Partnered with **RA/VAPT** teams to remediate high-priority security vulnerabilities; implemented **SSL certificate pinning**, CSRF protection, and defensive measures against SQL injection and MITM attacks.

Projects

Rupixo – Distributed Payment Gateway & Event-Driven Processing Engine

[GitHub](#)

- Architected an event-driven payment processing platform in **Java 25 (Virtual Threads)** and **Spring Boot**, streaming payment events to **Apache Kafka** via the **Transactional Outbox Pattern** with merchant-partitioned FIFO ordering.
- Implemented a **distributed idempotency store** and atomic **sliding-window rate limiter** using **Redis**, eliminating race conditions and duplicate debits.
- Enforced **PCI-DSS Level 1 compliant card vaulting** using **two-tier AES-256 GCM envelope encryption**, opaque tokenization, and in-memory PAN byte wiping; built a resilient **webhook delivery engine** (Redis ZSET, backoff, DLQ) and automated nightly **T+1 settlement engine**.

Technologies Used: Java 25 (Virtual Threads), Spring Boot, Apache Kafka, Redis, PostgreSQL 18, Spring Security, Hibernate/JPA, Docker, REST APIs, JWT, Maven

Achievements

- **LeetCode Knight Badge:** Achieved top **4% global ranking** with a peak rating of **1903** and **1,300+** data structures and algorithms problems solved.
- **Star of the Month (December 2025):** Awarded at Tata Consultancy Services for exceptional problem-solving, rapid critical incident resolution, and operational excellence under pressure.

Education

Bachelor of Technology in Computer Science Engineering

2019 – 2023

B. K. Birla Institute of Engineering and Technology, Pilani, Rajasthan, India

CGPA: 8.66/10.0