Ashirvad Kumar Pandey

Backend & Data Engineer | Distributed Systems | AI-Integrated Platforms

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Experience

Wissen Technology (Client: Morgan Stanley) *Jun 2025 – Present*
SDE - I India

- Architected and delivered a Spring Boot microservices-based **financial audit automation platform** with Snowflake-backed storage and optimized ingestion/validation pipelines, reducing reporting SLA by 40%.
- Led migration of legacy workflows to **distributed Airflow (CeleryExecutor)**, implementing retries, failover, and SLA monitoring—improving reliability and cutting compute costs by 60%.
- Designed a rule-based **P&L anomaly engine** with statistical checks and AI-generated summaries, reducing analyst investigation time by 60% while preserving audit traceability.

Wissen Technology (Client: Morgan Stanley) *Feb 2024 – May 2025*
SDE Intern India

- Optimized high-volume **Apache Spark** ETL pipelines (partition tuning, shuffle reduction, query refactoring), reducing runtime by 80% and eliminating recurring downstream data inconsistencies.
- Introduced **Hazelcast distributed caching** across clustered services to support 70% higher peak traffic while maintaining latency stability and cross-node data consistency.
- Engineered end-to-end **ICAAP automation platform** using Spring Boot REST APIs and an Angular microfrontend architecture, eliminating 200+ manual hours/week and reducing quarterly production incidents from 12 to 0 through structured validation, centralized exception handling, and hardened API contracts.

Projects

PnLGuard AI — Financial Anomaly Monitoring System *Jan 2026*
Spring Boot, PostgreSQL, React, TypeScript Live

- Engineered a stateful **financial exception management platform** with automated anomaly detection, analyst sign-off tracking, and audit-grade decision persistence to prevent redundant AI invocation and ensure multi-analyst transparency.

AirflowSentry AI — ETL Failure Diagnosis Console *Aug 2025*
Airflow, Spring Boot, React, AI Ops Live

- Built an AI-assisted ETL diagnostics console that parses Airflow execution logs, classifies failure patterns, and integrates with Jira/Slack to accelerate MTTR across production pipelines.

ChatLoom — Multi-Channel GenAI Assistant Platform *Mar 2025*
Spring Boot, Docker, React Live

- Built a centralized GenAI assistant platform with **role-based prompt governance**, reusable templates, and multi-key routing for reliability under rate limits.
- Designed an API-first backend supporting Web + Telegram channels, deployed via Docker for scalable AI Ops extensions.

Skills

- **Languages & Core Backend:** Java, SQL, Python, Scala, Spring Boot, REST APIs, Microservices, JUnit.
- **Distributed Systems & Architecture:** Redis, Hazelcast, Idempotency Layers, Lua Scripting
- **Data Engineering & Infrastructure:** Apache Spark, Airflow, Snowflake, Linux, DevOps, AutoSys

Education

Lovely Professional University *Aug 2021 – May 2025*
B.Tech in Computer Science and Engineering Punjab, India