JAY AGGARWAL

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Aspiring Data Solutions Engineer — Final-Year CS Student — Skilled in Data Engineering and Cloud Analytics

Education

The LNM Institute of Information Technology — **Aug 2022 – Apr 2026**
Bachelor of Technology in Computer Science and Engineering — *Jaipur, India*

Professional Experience

Data Solutions Developer (Freelance) — **Apr 2025 – Jun 2025**
TRISX Technology — *Remote*

- Built real-time data pipelines and dashboards for an exam portal serving 1,000+ concurrent users, improving analytics speed by 30%.
- Optimized 25+ RESTful APIs using MongoDB aggregation and indexing, reducing query response times by 40%.
- Implemented JWT authentication with RBAC for secure data access, cutting vulnerabilities by 25%.
- Collaborated in Agile sprints with a 4-member team, ensuring timely delivery of data-driven solutions.

Projects

End-to-End Streaming Pipeline — **Self-Initiated**
Apache Airflow, Kafka, Spark, PostgreSQL, Docker

- Built containerized real-time pipelines orchestrated by Airflow; ingested via Kafka, processed with Spark, and stored in PostgreSQL.
- Implemented schema registry and monitoring for robust streaming.

Uber Data Pipeline on GCP — **Self-Initiated**
GCP Storage, BigQuery, Looker Studio, Python

- Developed GCP-based ETL: ingested Uber trip data into BigQuery, automated transformations, and visualized insights via Looker Studio.
- Applied analytics queries for faster insight delivery.

Leadership and Activities

Technical Lead — **Sep 2024 – Feb 2025**
E-Summit, LNMIIT — *Jaipur, India*

- Led a 10-member team to build the summit's platform for 1,000+ attendees, automating event workflows and cutting errors by 15%.
- Mentored junior developers on full-stack and data engineering best practices.

Skills

Programming: Python, SQL, Java

Data Engineering: Data Pipelines, ETL, Kafka, Spark, PostgreSQL, MongoDB

Orchestration: Apache Airflow

Cloud Platforms: Google Cloud Platform (BigQuery, Storage), AWS (S3, Redshift)

Visualization: Looker Studio, Dashboards

DevOps
Tools: Docker, Git, CI/CD