Hritik Singh

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Professional Summary

Results-driven **Data Engineer** specializing in building scalable **batch and real-time data pipelines** using tools like **AWS Glue**, **Apache Kafka**, and **Apache Flink**. Delivered 5+ complex **data migration projects** and automated end-to-end **ETL workflows** across **AWS** and **GCP**. Proven expertise in **distributed systems**, **streaming architecture**, and **event-driven application design**, with strong focus on **data governance**, **observability**, and **cost optimization**.

Technical Skills

Streaming & Distributed Systems: Apache Kafka, Apache Flink, Apache Airflow
Cloud Platforms: AWS (Glue, Kinesis, openSearch, Lambda, EC2, S3, RDS, Athena, Lake Formation etc), **GCP** (BigQuery, Cloud SQL, VMs, Looker etc .)
Data Engineering: ETL Automation, Data Lakes, Change Data Capture (CDC), Data Modeling, Schema Design
Programming Languages: Python, SQL, PySpark, Scala, Pandas
Databases: PostgreSQL, MySQL, MongoDB, SQL Server, DynamoDB, Oracle, Redis, Qdrant
Data Visualization: Power BI, AWS QuickSight, Looker (GCP)

Experience

Associate Data Engineer   *Dec 2023 – Present*
Workmates Core2Cloud Solutions Limited – Kolkata, India

- Engineered **real-time replication pipelines** from **AWS Lightsail to RDS** using master-slave configurations, achieving near-zero downtime.

- Consolidated and migrated 5+ **PostgreSQL RDS databases** using **AWS DMS** and schema export/import strategies.

- Developed robust **ETL workflows** with **AWS Glue** and **PySpark** to ingest data from **GCP Cloud SQL** into **Amazon Redshift**, enabling business reporting in **QuickSight**.

- Executed large-scale **MySQL to PostgreSQL** migration across 100+ tables, incorporating **incremental syncs** and transformation logic via **pg_cron** within an ELT architecture.

- Delivered **SQL Server to Redshift** data warehouse migration using **Change Data Capture (CDC)** to support **Power BI** dashboards.

- Built a **serverless cost monitoring solution** using **AWS Lambda**, **S3**, **Athena**, and **QuickSight**.

- Applied **Apache Kafka** for internal **event-driven architecture** to support near-real-time data processing.

- Developed real-time **CDN analytics pipeline** using **AWS CloudFront** → **Kinesis Firehose** → **OpenSearch**, powering live dashboards and anomaly alerts.

- Led client consultations across India, delivering **tailored data solutions** based on unique business KPIs and technical requirements.

Application Developer *Jun 2022 – Aug 2023*
Computer Software Solution LLC

- Built and maintained responsive **Angular-based web applications** and **Android apps**, ensuring cross-platform consistency.

- Resolved complex issues related to **MongoDB**, API integrations, and optimized data handling on the frontend.

Projects

Real-Time Generative AI Dashboard for Business Insights
Built a real-time data analytics platform powered by **Generative AI (GPT-4)** to enable on-the-fly business intelligence. Streamed transactional data via **Apache Kafka** into **AWS Redshift** using **AWS Glue streaming jobs**, with low-latency processing. Integrated **LLMs** via **FastAPI** to allow users to ask natural language questions, which were dynamically converted into optimized SQL queries. Deployed interactive dashboards using **Amazon QuickSight**, enabling CXOs to receive contextual, AI-curated insights in real time.

Awards

- **Customer Engagement Champion – Database Team**
  Honored by **Workmates Core2Cloud** for exceptional delivery of client-centric data engineering solutions across diverse industry verticals in India.

Certifications

- **AWS Certified Data Engineer – Associate**
  Amazon Web Services – Verified skills in building scalable, cost-effective data pipelines with expertise in **schema evolution**, **metadata management**, and **governance**.
  [View Certificate]

- **Associate Cloud Engineer**
  Google Cloud – Certified in deploying, monitoring, and managing cloud-native applications and infrastructure using GCP services.
  [View Certificate]

- **GitHub Foundations**
  GitHub – Proficient in **version control**, collaborative workflows, and repository lifecycle management.
  [View Certificate]

Education

Master's in Computer Application (MCA) *Aug 2022 – July 2024*
Techno India University **CGPA: 8.64**
Bachelor's in Computer Application (BCA) *Aug 2019 – July 2022*
Techno Main Saltlake **CGPA: 9.34**