

# NAGARJUN K

## GCP Data Engineer

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### Summary

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Cloud Data Engineer with 4 years of experience building scalable ETL/ELT pipelines on GCP, leveraging Apache Spark, SQL, and BigQuery for robust data processing and warehousing. Skilled in Airflow for orchestration and GitLab for CI/CD automation. Experienced in delivering solutions across supply chain, retail, and inventory domains to drive business impact.

### Professional Experience

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**Data Engineer** **Nov 2023 – Present**  
*BT Group* *Bengaluru, Karnataka*

- Migrated ETL pipeline from Compute Engine to Dataproc and Cloud Composer, enhancing performance, monitoring, scalability, and parallelization, **reducing process time from 4 hours to 45 minutes.**
- Orchestrated data pipelines using Apache Airflow to load incremental data from Cloud Storage landing zone into BigQuery by transforming data using Apache PySpark and applying tokenization to mask sensitive/PII data.
- Deployed Oracle VPD with BigQuery AEAD and row-level access policy to enforce data protection, leading to a **70% reduction in data access violations** and enhancing the overall visibility of sensitive data for compliance audits.
- Built a custom data refresh solution for non-production BigQuery environments using ThreadPoolExecutor, **reducing manual operations team work by 30%.**
- Transformed raw data using Spark and built **data products** for business use by following **Data Mesh architecture**
- Engineered **Terraform scripts** to automate infrastructure provisioning in GCP.

**Data Engineer** **Nov 2020 – Oct 2023**  
*Pluto7, GCP Premier Partner* *Bengaluru, Karnataka*

- Engineered inventory tracking solution for shipments with PySpark on Dataproc and Composer, enhancing stakeholder alerts for overdue milestones and **reducing delay report turnaround from one day to near real-time.**
- Created ELT pipelines to transfer data from SAP ECC to BigQuery using Data Fusion. Replaced Excel reports with Power BI dashboards, **reducing report generation time by 60% and improving data quality.**
- Developed a BigQuery-based solution for inventory management, streamlining data access, **reducing manual effort, and boosting planning efficiency by 45%.**
- Wrote high-performance SQL scripts to convert business logic for UI and dashboard display, and implemented **SCD Type 2** to maintain historical data in the data warehouse for reporting.
- Designed and developed automated ELT/ETL pipelines to replicate data from SQL Server, PostgreSQL, SAP ECC, and APIs into BigQuery using Dataproc, Data Fusion, and Cloud Composer for orchestration.
- Worked on data pipelines for different data load types like historical, incremental, and appending delta loads.
- Handled pipeline monitoring, package upgrades, issue resolution, and enhancements. Participated in requirements gathering, data modeling, and creating technical design documents (TDD) for customer use cases.

### Technical Skills

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**Cloud Services:** GCP(Cloud Composer, BigQuery, Dataproc, Pub/Sub, Dataflow, Compute Engine), Azure(Data Factory)

**Languages:** Python, SQL, PySpark, Shell Scripting

**Big Data:** Apache Airflow, Apache Spark, Hive, Databricks, HDFS

**Databases:** MS SQL Server, Cloud SQL, MySQL

**Technologies/Frameworks:** Terraform, FastAPI, Linux, Git & GitHub, GitLab, Tableau, Looker studio

### Certifications

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- Google Cloud Certified Professional Cloud Data Engineer
- Databricks Certified Data Engineer Associate
- Astronomer Certification: Apache Airflow Fundamentals
- DP - 900: Azure Data Fundamentals

### Awards & Achievements

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- **Performance Award (Q3 2022)** - Awarded for consistent performance, ownership, independent work, and delivering high-quality output.
- **Spot Award (Q1 2023 & Q4 2021)** - Recognized for impactful contributions to customer projects, consistently outperforming expectations and taking an active role in company initiatives

### Education

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**SJB Institute Of Technology (Grade: 8.3)**

*Bachelor of Engineering in Computer Science*

**2016 – 2020**

*Bengaluru, Karnataka*