Lucy Lin

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PROFILE

Cloud-focused data engineer with experience in building scalable platforms and improving data reliability. Skilled in BigQuery, Airflow, and workflow automation. Bridge analytics and engineering through reusable tools and clear documentation.

EXPERIENCE

Data Engineer

Titansoft | Oct 2023–Present

- Managed 150+ BigQuery assets and Git-based workflows across 8 departments
- Automated IAM reviews via CI/CD pipelines for access audits and permission matrix
- Cut query cost from 500 GB to <1 GB by partitioning, clustering, and SQL refactor
- Improved Tableau extract time from 37 min to 13 sec, reducing server CPU usage
- Built pipelines from SQL Server, Parquet, and Pub/Sub with cold backup in GCS
- Designed freshness and consistency checks for real-time alerts and anomaly recovery
- Cut development time for data checks from 4 hours to 30 minutes using reusable Airflow DAG templates and AI-assisted logic design
- Built reusable Airflow templates and integrated AI tools to cut dev time by 80%
- Developed internal Python SDKs for Slack alerts and extended BQ client workflows

Software Engineer

Ingrasys | Mar 2021–Sep 2023

- Resolved critical network bug and improved system reliability
- Refactored legacy Python code to enhance maintainability

System Integration Engineer

Delta Electronics | Sep 2018–Feb 2021

- Delivered MES/WMS systems for 1,000+ factory users
- Automated ERP data integration, reducing manual processing time

SKILLS

BigQuery   Airflow   GCP   Python   SQL   Git

EDUCATION

M.S. & B.S., National Cheng Kung University

VOLUNTEER

PyCon Taiwan – Venue & Program Event Lead (2022–2024)