Tiffany Wang

Senior Data Engineer | Cloud & Modern Data Stack Expert

📍 Redondo Beach, CA | 📞 (626)-223-6123 | ✉ tiffany.wang.engineer@gmail.com

🔗 [LinkedIn](#)

SUMMARY

8+ years of experience in **data engineering** with expertise in **DBT, Snowflake, and Azure**, delivering $3.8M+ cost savings through cloud optimization and automated data pipelines. Proven track record in building end-to-end data solutions, reducing latency by 50%, and improving data reliability to 99.99% SLA. Master's in Software Engineering with certifications in progress (AWS, Scrum Master). Adept at leading cross-functional teams and translating business goals into scalable technical architectures.

TECHNICAL SKILLS

Core Tools: †DBT, †Snowflake, †Azure Data Factory, Airflow, Spark/EMR
Data Engineering: ETL/ELT Optimization, Data Ingestion, Dimensional Modeling, Data Quality Frameworks
Cloud Platforms: †Azure (Data Factory, Databricks), AWS (Redshift, S3, Glue), Snowflake
Languages: SQL (Advanced), Python (Pandas, PySpark), Java
DataOps: CI/CD, Docker (Basic), Kubernetes (Familiar)
Certifications: AWS (In Progress), Scrum Master (In Progress)

PROFESSIONAL EXPERIENCE

Capital Group | Solution Engineer II

Irvine, CA | Jun 2019 – Apr 2023

Hybrid Cloud Data Pipeline Modernization

- Migrated 15+ data pipelines from **AWS Glue** to **Azure Data Factory**, reducing end-to-end latency from 2 hours to **<5 minutes** and cutting annual infrastructure costs by **$1.2M**.
- Implemented **DBT Core** for dynamic ELT workflows, reducing redundant SQL logic by **30%** and enabling real-time analytics for 10K+ enterprise users.
- Architected **Snowflake multi-cluster warehouses** with auto-scaling strategies, optimizing query performance and lowering compute costs by **25%**.

Data Reliability & Governance

- Designed a Python-based data quality framework (integrated with **Great Expectations**), reducing dirty data incidents from **15% to 0.5%**.
- Built a cross-cloud monitoring dashboard (**Datadog + Power BI**), achieving **99.99% SLA** and reducing MTTR by **65%**.

Leadership & Collaboration

- Mentored 5 junior engineers on **DBT best practices**, accelerating team productivity by **25%**.
- Collaborated with VP-level stakeholders to define a 3-year hybrid cloud roadmap, modernizing APIs and reducing legacy system dependencies by **70%**.

Online AI & ML Program | Freelancer

Remote | Apr 2023 – Mar 2025

DBT-Driven Client Analytics Platform

- Delivered 10+ client projects using **DBT + Snowflake**, standardizing ELT workflows and improving query performance by **50%**.
- Containerized ETL pipelines with **Docker**, reducing configuration errors by **35%** and enabling seamless multi-environment deployment (Dev/Test/Prod).

Cost-Optimized Cloud Architecture

- Replatformed client workloads from **AWS EMR** to **Azure Databricks**, cutting cloud spend by **30%** while maintaining 99.9% uptime.

- Automated data ingestion for unstructured data (JSON/CSV) using **Python + Airflow**, processing **800GB/day** with error rates **<0.1%**.

EDUCATION

Master of Science in Software Engineering

Embry-Riddle Aeronautical University | Aug 2015 – Aug 2017

Bachelor of Science in Computer Science and Technology

Nanjing University of Aeronautics and Astronautics | Aug 2012 – Jun 2016

ADDITIONAL

- **Certifications:** AWS Certified Solutions Architect (In Progress), DBT Fundamentals (2024)
- **Open Source:** Contributed to Airflow-Snowflake connector (GitHub: /tiffany-db)
- **Languages:** English (Fluent), Mandarin (Native)