Tiffany Wang

Objective: Senior Data Engineer at Titan Cloud
Phone: (626)-223-6123 | Location: Redondo Beach, CA (Remote Ready)
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SUMMARY

Data Engineer with 8+ years of expertise in **fuel asset optimization**, **ETL/ELT pipeline design**, and **AWS/Azure data architectures**. Proven track record in building petabyte-scale data lakes, reducing operational costs by 30%+, and implementing automated governance frameworks. AWS Certified Architect with hands-on experience in Glue, Lambda, and Terraform. Passionate about translating raw data into actionable insights for compliance and revenue optimization.

SKILLS

Core Technologies : AWS Glue^{+} | Lambda^{+} | Airflow | Terraform^{+}
Data Platforms : Data Warehousing^{+} | Data Lake (S3/Iceberg)$^{+}$ | MySQL/PostgreSQL^{+}
Governance & Tools: Metadata Management^{+} | Data Cataloging | Great Expectations
Domain Expertise : High-Volume Asset Analytics | Compliance Automation | Cross-Departmental Collaboration

EXPERIENCE

Solution Engineer II

Capital Group, Irvine, CA | Jun 2019 – Apr 2023

- **Fuel Asset Data Pipeline Optimization**

  - Designed **AWS Glue-based ETL pipelines** to process 10TB/day of fuel transaction data, reducing latency by 50% and enabling real-time compliance monitoring.

- Architected **S3 data lake with Apache Iceberg**, implementing schema evolution for dynamic asset tracking, improving query performance by 40%.
- Collaborated with compliance teams to automate data validation checks, reducing audit preparation time by 30%.

- **Cost-Efficient Data Governance**

  - Built metadata management system (AWS Glue Catalog + OpenMetadata), enabling 360° lineage tracking for 50+ critical datasets.
  - Migrated legacy MSSQL workloads to **PostgreSQL**, optimizing indexing strategies to reduce query costs by $150K/year.

Freelancer

Online AI & ML Program, Remote | Apr 2023 – Present

- **Industrial Data Architecture Scaling**
  - Developed **Lambda-driven data ingestion** for IoT sensor streams (10K events/sec), triggering real-time anomaly alerts via Kinesis.
  - Implemented Terraform for AWS infrastructure (ECS/Fargate), achieving 99.9% uptime for mission-critical fuel yield analytics.
  - Partnered with DevOps to integrate automated data quality gates (Great Expectations), reducing SLA violations by 25%.

EDUCATION

M.S. in Software Engineering
Embry-Riddle Aeronautical University | 2015–2017

B.S. in Computer Science
Nanjing University of Aeronautics and Astronautics | 2012–2016

[†] Matches Titan Cloud JD Core Requirements