Tiffany Wang

Objective: Senior Data Engineer - AWS Cloud Migration Expert
Focus Areas: Python† | AWS† | Financial Systems | Cloud-Native Transformation

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SUMMARY

Cloud Data Architect with 8+ years of expertise in **Python†-driven cloud migrations**, financial system modernization, and AWS†-native solutions. Led 3 enterprise-scale on-prem to AWS transformations, achieving 99.99% data integrity and 60% TCO reduction. Certified AWS Solutions Architect with deep experience in regulated financial environments (SOX/HIPAA).

SKILLS

Core Technologies: Python† (OOP/PySpark), AWS† (EMR†/RedShift†/Lambda), SQL†, Airflow†
Migration Tools: AWS DMS, Glue ETL, Terraform†, Docker†
Compliance: SOC 2 Type II, GDPR, Data Loss Prevention (DLP)
Financial Systems: P&L Attribution, Basel III Reporting, SEC Audit Frameworks

EXPERIENCE

Senior Cloud Data Engineer

Capital Group | Irvine, CA | 2019–2023

Key Achievements:

- **$500M Portfolio Analytics Platform Migration**

    - Migrated on-prem Python†/Oracle system to **AWS EMR†** with PySpark, reducing batch processing time from 8hrs → 47min (90%↓)
    - **Technical Decision**: Chose RedShift† over Snowflake for real-time BI needs, leveraging RA3 nodes to cut query costs by 35%
    - Implemented column-level encryption for SEC-regulated data, passing 100% compliance audits

- **Financial Data Lake Modernization**
    - Built **Lambda†**-based data validation framework with 200+ data quality rules, resolving 98% integrity issues pre-production
    - **Hook**: Designed Terraform† modules for multi-account VPC peering, enabling cross-region DR strategy

Cloud Migration Consultant

FinTech Innovation Lab | Remote | 2023–Present

Key Projects:

- **Basel III Risk System Cloud Transformation**
    - Re-architected Oracle Financial Services to **AWS RDS† PostgreSQL**, reducing license costs by $1.2M/year
    - Created CI/CD pipelines for regulatory report generation, decreasing deployment errors by 75%

- **Real-time Trade Surveillance Platform**
    - Developed Python†/Kafka streaming system on **AWS MSK**, detecting anomalous trades with 99.7% accuracy
    - **Technical Hook**: Implemented stateful processing with Apache Flink for pattern recognition

EDUCATION

MS Software Engineering | Carnegie Mellon University | 2015–2017
BS Computer Science | Tsinghua University | 2011–2015

Technical Impact: 90% processing acceleration | $1.2M annual savings | 99.99% uptime