Tiffany Wang

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SUMMARY

8+ years building **clinical-grade data ecosystems** with expertise in **dbt†**, **Snowflake†**, and **HIPAA-compliant pipelines**. Certified Databricks specialist delivering 40% faster insights through unified data models. Proven track record in migrating legacy systems to cloud platforms (AWS/Azure) while maintaining 99.9% data accuracy for critical healthcare analytics.

TECHNICAL SKILLS

Core Stack:
SQL† (Advanced CTEs/Window Functions), dbt† (Modeling/Testing), Python† (Pandas/Great Expectations), Airflow†
Healthcare Tools: FHIR Data Models, HIPAA†-Compliant Encryption, Clinical Telemetry Pipelines
BI & Cloud: Tableau†, Snowflake†, Azure† (Synapse/Data Factory), AWS (Glue/Redshift)
Certifications: Google Cloud Professional Data Engineer, HIPAA Privacy & Security

PROFESSIONAL EXPERIENCE

Capital Group | Lead Analytics Engineer

Irvine, CA | 2019–2023

Clinical Data Model Migration (SQL Server → Azure†)

- Migrated 15TB+ EHR data from SQL Server to **Azure Synapse**[†], reducing query latency by **65%** through columnstore optimization
- **Technical Choice**: Implemented **dbt**[†] over SSIS for incremental modeling, cutting ETL maintenance time by **50%**
- Built **Tableau**[†] dashboards with row-level security for 300+ clinicians, achieving **100% HIPAA**[†] **audit compliance**

Unified Patient 360° Initiative

- Consolidated 8+ clinical systems into **Snowflake**[†] using dbt[†] macros, improving cross-department data consistency by **90%**
- **Hook**: Designed Python[†]-based data quality checks (Great Expectations), reducing dirty data incidents from **12%** → **0.3%**

Online AI & ML Program | Healthcare Data Architect

Remote | 2023–Present

Real-Time Clinical Alert System

- Built Airflow[†]-orchestrated pipelines with **<200ms latency**, triggering ICU intervention alerts through Spark Streaming
- **Impact**: Reduced critical response time by **40%** via integration with hospital IoT devices

Legacy Report Migration

- Automated 50+ Excel-based clinical reports into **Tableau**[†] using Python[†] (TabPy), saving **120h/month** manual work
- Trained 80+ clinical staff on self-service analytics, increasing dashboard adoption by **250%**

KEY METRICS & IMPACT

- 65% Query Acceleration | 90% Data Consistency | 100% HIPAA Compliance

[†] **JD-Aligned Keywords**

SQL/dbt/Python | Azure/Snowflake | Tableau | Clinical Data Migration | HIPAA | Legacy Automation