

# Tiffany Wang

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**Objective: Junior Data Engineer - AWS + AI Focus**

**Focus Areas:** AWS Glue<sup>+</sup> | SQL Optimization<sup>+</sup> | HIPAA Compliance | LLM Integration

Phone: (626)-223-6123 | Location: Redondo Beach, CA (Remote Eligible)

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## SUMMARY

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**AWS-Certified Data Engineer** with hands-on experience in **AI-driven ETL pipelines** and HIPAA-compliant systems. Proficient in SQL<sup>+</sup> (window functions, CTEs) and AWS<sup>+</sup> (Glue, Lambda, Athena), delivering 70% faster data workflows. Passionate about applying LLMs for data classification and RAG patterns, with a track record of automating 50+ validation rules.

## SKILLS

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**Core Stack:**

SQL<sup>+</sup> (Stored Procedures, Query Tuning), AWS<sup>+</sup> (Glue<sup>+</sup>, Lambda<sup>+</sup>, Athena), Python (Pandas, PySpark)

**AI/Data Science:** LLM Integration<sup>+</sup>, Retrieval-Augmented Generation (RAG<sup>+</sup>), Feature Extraction

**Compliance:** HIPAA<sup>+</sup>, Data Masking, Audit Logging

**Tools:** Power BI<sup>+</sup>, Great Expectations, Databricks

## EXPERIENCE

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### Solution Engineer II

Capital Group | Irvine, CA | 2019–2023

**HIPAA-Compliant EHR Aggregation (AWS Glue<sup>+</sup>)**

- Built automated ETL pipelines with **AWS Glue 4.0** and Lambda<sup>+</sup>, reducing manual data mapping by 70% for 500K+ patient records
- **Technical Choice:** Implemented AWS Data Quality<sup>+</sup> over custom scripts, achieving 99.9% data accuracy for clinical reports
- Integrated **LLM-based classification** (Hugging Face) to auto-tag 20+ sensitive data fields, accelerating HIPAA audits

### Real-Time Analytics Optimization

- Optimized SQL<sup>+</sup> stored procedures with window functions, cutting query runtime from 12s → 3s for Power BI<sup>+</sup> dashboards
- **Hook:** Designed dynamic partitioning in Athena<sup>+</sup>, reducing scan costs by 40% (\$150K/year saved)

## Freelance Data Architect

Online AI & ML Program | Remote | 2023–Present

### RAG Pipeline for Healthcare QA

- Developed a Retrieval-Augmented Generation<sup>+</sup> system using OpenAI and Pinecone, improving FAQ accuracy by 35%
- **AI Impact:** Automated 80% of patient inquiry routing via LLM-generated metadata tagging

### IoT Anomaly Detection (AWS Lambda<sup>+</sup>)

- Built serverless workflow processing 10K events/sec, triggering real-time alerts with <200ms latency
- **Automation:** Reduced manual monitoring efforts by 60% through Lambda→SNS integration

## EDUCATION

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

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

**Certifications:**

- AWS Certified Solutions Architect
- Microsoft Power BI Data Analyst

**Key Metrics:**

- 70% ETL Automation | 40% Cost Reduction | 99.9% HIPAA Compliance

**† JD-Aligned Keywords**

AWS Glue/Lambda/Athena | SQL Optimization | LLM/RAG | HIPAA | Power BI