Tiffany Wang

Objective: Data Engineer (Healthcare AI Solutions)
Phone: (626)-223-6123 | Location: Redondo Beach, CA (Remote, PST Available)
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SUMMARY

Data Engineer with 8+ years of expertise in **healthcare data integration**, **cloud ETL optimization**, and **FHIR/HL7v2 compliance**. Proven track record in building scalable pipelines for EHR systems (e.g., Epic), automating workflows with IaC, and collaborating with AI/ML teams. AWS Certified Architect with hands-on experience in Snowflake and Databricks. Passionate about leveraging data engineering to solve healthcare safety and compliance challenges.

SKILLS

Healthcare Data : FHIR† | HL7v2† | EHR Integration (Epic)† | HIPAA Compliance
Core Technologies : Python† | Airflow | AWS (Glue†, S3, Redshift) | Snowflake
Automation & IaC : Terraform† | CI/CD (GitHub Actions) | Infrastructure-as-Code†
Collaboration : Cross-Functional Teams | Agile/Scrum | AI/ML Pipeline Support

EXPERIENCE

Solution Engineer II

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

- **Healthcare Data Pipeline Architecture**
    - Designed **FHIR-compliant ETL pipelines** (Python + AWS Glue) to ingest patient data from 10+ EHR sources, reducing integration latency by 40%.

- Implemented **IaC with Terraform** for AWS infrastructure, enabling seamless deployment of data lakes and reducing manual errors by 30%.
- Collaborated with compliance teams to ensure HIPAA alignment, achieving 100% audit readiness for sensitive health data.

- **High-Volume Data Processing**
  - Scaled Snowflake data warehouse to handle 10M+ daily healthcare transactions, optimizing query performance via micro-partitioning (runtime ↓35%).
  - Automated data quality checks with Great Expectations, reducing SLA violations by 25%.

Freelancer

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

- **EHR Integration & Automation**
  - Built **HL7v2-to-FHIR conversion pipelines** (Python + Kafka), enabling real-time data synchronization for 5+ hospital clients.
  - Developed IaC templates (Terraform + GitHub Actions) for Azure-based deployments, cutting provisioning time from 4hrs to 15min.
  - Partnered with AI teams to structure training datasets for clinical prediction models, improving model accuracy by 18%.

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 JD Core Requirements