Tiffany Wang

Objective: Senior Data Engineer at Crunchyroll

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SUMMARY

Strategic **Data Engineering** with 8+ years of experience designing scalable data ecosystems, building ETL pipelines, and mentoring teams to deliver high-impact data solutions. Proven expertise in **SQL, AWS (Redshift, S3, Glue), BI** , and **dimensional data modeling**, with a track record of reducing infrastructure costs by 30%+ and improving data reliability. Master's in Software Engineering with certifications in progress (AWS, Scrum Master). Adept at translating business KPIs into technical architectures and fostering collaboration across cross-functional teams.

SKILLS

Data Engineering: ETL/ELT Pipelines, Dimensional Modeling, Data Warehousing (Redshift, Snowflake), Data Quality, Lakehouse Architecture, Restful API
Cloud & Tools: AWS (Redshift, S3, Glue, Lambda), Airflow, Spark/EMR, Databricks, Kafka, MongoDB, Snowflake (familiar), Talend
Languages: NodeJS, Python, SQL(Postgre SQL), Java, PH, Google BigQuery
Frameworks: Agile/Scrum, CI/CD, DevOps, RESTful APIs
Visualization: Tableau, Preset, Power BI

EXPERIENCE

Solution Engineer II
Capital Group, *Irvine, CA | Jun 2019 – Apr 2023*

Key Achievements:

- **Data Pipeline & Cloud Infrastructure Leadership:**

  - **Led end-to-end design of AWS data pipelines** (Redshift, Glue, S3), enabling real-time analytics and reducing latency by 50% for enterprise-scale subscriber metrics.
  - **Architected dimensional data models** to align with business KPIs, optimizing query performance and reducing reporting delays by 40%.
  - **Spearheaded ETL automation** using Airflow, integrating 15+ data sources to build a centralized data warehouse, improving data accessibility for cross-functional teams.
  - **Mentored 5 junior engineers** in ETL best practices and data modeling, resulting in a 25% increase in team productivity and 99.9% pipeline uptime.
  - **Collaborated with VPs and senior managers** to define a 3-year hybrid cloud roadmap, modernizing APIs and reducing infrastructure costs by $1.2M annually.

- **DevOps CI/CD & Agile Leadership:**

  - Spearheaded **enterprise-wide DevOps adoption**, aligning CI/CD pipelines with strategic IT goals, and presented progress to senior management via monthly sprint reviews.
  - Reduced incident escalations to leadership by 30% through proactive monitoring (Datadog) and transparent reporting on system reliability (99.9% uptime).

- **Stakeholder & Project Management:**
  - Conducted **stakeholder interviews** with VP-level executives to define cloud strategy vision, resulting in a 3-year roadmap for hybrid cloud integration and API modernization.
  - **Translated executive priorities** into technical requirements, leading cross-functional teams to deliver solutions that exceeded compliance and performance benchmarks.
- **Team Leadership:**
  - **Mentored 15+ engineers** in client communication frameworks, improving stakeholder satisfaction scores by 20%;
  - Practices as the **Scrum Master** role in a onshore & offshore team with 12 team members.

Freelancer
Online AI & ML Program, *Remote | Apr 2023 – Mar 2025*

Key Projects:
- **Scalable Data Solutions & Client Collaboration:**
  - **Built automated ETL workflows** using Airflow and Python, reducing manual errors by 35% and enabling real-time analytics for 10+ clients.
  - **Designed cost-optimized AWS architectures** (Lambda, EMR) for unstructured data processing, cutting client cloud spend by 30%.
  - **Implemented data quality frameworks** with automated checks, ensuring 100% compliance with client SLAs.
- **Client-Centric Cloud Solutions:**
  - Delivered cost-optimized **AWS architectures** (S3, EMR, Lambda), reducing client infrastructure costs by 30%.

Software Engineer
Florida Youth Rugby Union, *Remote | Dec 2017 - Oct 2018*

- **Led Agile development** of a data-driven web platform, integrating DevOps practices to achieve 100% on-time delivery.

Full Stack ERP Software Engineer
Shenzhen Communication Tech Co., Ltd., *Shenzhen, Guangdong, China | Jan 2017 - Sep 2017*

- Delivered a **SaaS-based ERP system** using Agile and SOA (PHP/MySQL), automating workflows and reducing operational delays by 25%;
- Integrated **RESTful APIs** with WAMP stack for real-time data reporting, enhancing cross-departmental collaboration.

Full Stack Assistant Software Engineer
Society for Industrial & Applied Mathematics, ERAU*, Daytona Beach, Florida | May 2015 - Dec 2016*

- Developed **RESTful APIs** (Java/JavaScript) and TDD/BDD frameworks to organize aviation data, accelerating analytics readiness;
- Streamlined **QA processes** via UML diagrams and pair programming, reducing defects by 15% and fostering team code standards.

EDUCATION

Master of Science: Software Engineering
Embry-Riddle Aeronautical University (ERAU), Daytona Beach, Florida   **Aug 2015 - Aug 2017**

Bachelor of Science: Computer Science and Technology
Nanjing University of Aeronautics and Astronautics (NUAA), Nanjing, China   **Aug 2012 - Jun 2016**