

# Rain Liao

Adelaide, Australia

+61 432 196 885 | liaoyuchieh6@gmail.com

[Linkedin](#) | [Project portfolio](#) | [Github](#)

---

## PERSONAL SUMMARY

Data Engineer with hands-on experience designing and deploying scalable ETL pipelines, cloud infrastructure, and data storage solutions across AWS and Azure. I enjoy building systems that make data usable, from ingestion and transformation through to structured storage and reliable delivery. Equally comfortable writing production Python, wrangling SQL, and spinning up containerized environments that teams can depend on.

---

## WORK EXPERIENCE

### Aug 2025 - Oct 2025 Data science internship

University of Adelaide, SET Faculty (Adelaide Australia)

- Designed and deployed an end-to-end ETL pipeline (Python, Selenium, NLTK, Blob, Airflow) to ingest, clean, and structure 100,000+ unstructured social media posts into a query-ready format for downstream NLP analysis.
- Engineered a scalable data processing workflow supporting transformer-based modeling and a LangChain RAG system, reducing model uncertainty by 20% through statistical validation.

### Aug 2024 - Mar 2025 Quantitative trading assistant

Australian Institute for Machine Learning (Adelaide Australia)

- Built and maintained a high-volume data pipeline processing 100GB+ of Binance market data using Python and Freqtrade, integrating structured sentiment signals with technical indicators for automated strategy execution.
- Containerized the full research environment with Docker, deployed to Azure VM cutting setup time by 80% and ensuring a reproducible, production-ready pipeline for live trade execution.

### Jul 2023 - Oct 2023 Special case technician

National Centre for Research on Earthquake Engineering (Taipei Taiwan)

- Scraped, processed, and structured large-scale weather and seismic datasets using Pandas and QGIS, with reliable storage in AWS DynamoDB and S3 for scalable downstream access.
- Architected and deployed a real-time data ingestion and alerting system on AWS (EC2, Lambda) integrating REST APIs and Google Maps API, with end-to-end observability via CloudWatch, and SNS for monitoring, and alerting on a stable, scalable Linux-based infrastructure.

### Jul 2025 - Present Front of House

Olive (Adelaide Australia)

- Provide excellent guest service through clear communication, teamwork, and quick problem-solving in a fast-paced fine dining environment.

---

## PERSONAL PROJECT

2026

### Real-Time Weather Analytics Pipeline

- Built a containerised weather data pipeline using Docker Compose, orchestrating API ingestion, dbt transformations, and Superset dashboards with Airflow end-to-end.

---

## LEADERSHIP

### Jan 2023 - Jul 2023 Team Leader

National College Smart Innovation Competition (Taipei Taiwan)

- Led a multidisciplinary team to build a full-stack web application using React, Python, and SQL, coordinating task allocation and technical decisions to deliver the project on time.

---

## ACHIEVEMENTS

- Microsoft Azure Data Scientist Associate: DP-100
- Microsoft Power BI Data Analyst Associate: PL-300
- Microsoft Fabric Data Engineer Associate: DP-700
- First-author conference publication – [ICRTCIS 2025 \(2026\)](#)
- ALTA 2025 – 5th/150 (ADR detection), +20% accuracy

---

## TECHNICAL SKILLS

Languages: Python, SQL, R, C++, JavaScript  
Data Engineering: data modeling, batch & real-time processing, data quality validation

Modules: Pandas, Selenium, Scikit-learn, PyTorch, Airflow, PySpark  
Cloud & DevOps: AWS, Azure, Docker, Linux, GitHub  
Data & Viz: ETL, DBT, API, Power BI, QGIS

---

## EDUCATION

### MASTER OF DATA SCIENCE

University of Adelaide | Adelaide, SA  
Feb 2024 – Dec 2025

### BACHELOR of CIVIL ENGINEERING

Chung Yuan Christian University | Taoyuan, Taiwan  
Sep 2018 - Jun 2023

---

## LANGUAGE

English (IELTS 7.5)  
Mandarin (Native)

---

## REFERENCE

Available upon request