

Kuan-Wei (Rome) Lin

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EDUCATION

University of Washington, Seattle

Master of Science in Information Management | Expected June 2025

- Specialization: Data Science & Business Intelligence
- Certifications: AWS Certified Cloud Practitioner, Lean Six Sigma Green Belt

Bachelor of Arts in Business Administration | Sept 2017 – Mar 2021

- Specialization: Supply Chain Management & Finance

TECHNICAL SKILLS

- Programming & Analysis: Python (Pandas, NumPy), R, SQL, Excel (VBA/Macros)
- Data Visualization: Tableau, Power BI, QuickSight
- Cloud & Data Engineering: AWS (S3, Redshift, Lambda), Azure (Data Factory, Synapse), Snowflake
- ETL & Workflow: Apache Airflow, Docker
- ML & Statistics: Scikit-learn, TensorFlow, A/B Testing, Time-Series Forecasting
- Languages: Mandarin (Native), English (Fluent), Japanese (Beginner)

PROFESSIONAL EXPERIENCE

Data Engineer Intern – PitchBook | Sept 2024 – Present

- Design and implement end-to-end ETL pipelines using Apache Airflow and Snowflake to integrate over 10 internal and external data sources.
- Classify customer feedback using NLP models (e.g., GPT-4o, BERT), achieving 95% accuracy and uncovering key user issues.
- Partner with stakeholders to refine dashboard KPIs, improving visibility into key business metrics.

Data Engineer Intern – Taiwan Semiconductor Manufacturing Company (TSMC) | June 2024 – Sept 2024

- Developed and fine-tuned RNN-based time series models to improve manufacturing cycle time forecasts, reducing forecasting error by 3%.
- Built and orchestrated daily ETL pipelines using Python, Airflow, and Git, improving data feature extraction efficiency by 20%.
- Enhanced the predictive model by increasing feature-target correlation by 65%, leading to more reliable cycle time forecasts.

Industrial Engineer – Micron Technology, Inc. | Aug 2022 – Aug 2023

- Analyzed high-volume manufacturing data using SQL and Python to identify manufacturing inefficiencies and uncover \$10M in cost-saving opportunities.
- Built five Power BI dashboards to support real-time decision-making on capacity utilization and capital expenditure.
- Improved order fulfillment rate by 2% by identifying key production bottlenecks and recommending system-level optimizations.

Supply Chain Intern – Top Gear Leather Co., Ltd. | July 2020 – Sept 2020

- Analyzed production throughput using SQL and Power BI, reducing average lead time by one week through visibility into inefficiencies.
- Coordinated cross-site manufacturing initiatives and partnered with engineers to streamline upstream sourcing and downstream logistics.
- Forecasted raw material needs using Excel VBA and exponential smoothing, improving forecast accuracy by 3% and automating purchase planning.

PROJECT EXPERIENCE

Real Estate Price Prediction – University of Washington | Sept 2024 – Feb 2025

- Designed and orchestrated Airflow-based ETL pipelines to extract, transform, and load housing data into Amazon S3 and Redshift.
- Built and deployed a real-time price prediction API using FastAPI on AWS EC2, enabling on-demand home valuation accessible via a web front-end.

Retail Supply Chain BI System – University of Washington | Sept 2023 – May 2024

- Automated multi-source data ingestion using Dockerized Airflow DAGs, enabling near real-time visibility for inventory and fulfillment dashboards.
- Designed star schema models and reporting layers in Azure Synapse to support KPI reporting across sales, inventory, and fulfillment.