Kuan-Wei (Rome) Lin

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TECHNICAL SKILLS

- **Supply Chain & Operations:** Inventory Management, Capacity Planning, Logistics Optimization, Cost Reduction, Demand Forecasting & Trend Analysis
- **Data & Analytics:** Microsoft Excel, Power BI, Tableau
- **Cloud & ETL:** Microsoft Azure (SQL Database, Data Factory, Databricks), AWS (S3, EC2, Redshift, QuickSight), Snowflake
- **Programming:** Python (Apache Airflow, PySpark), SQL, JavaScript, HTML/CSS
- **Languages:** Mandarin (Native), English (Fluent), Japanese (Beginner)

EDUCATION

University of Washington, Seattle

- **Master of Science in Information Systems** *(Expected June 2025)*
  - Specialization: Data Science & Business Intelligence
  - In-Progress Coursework: Data Structures and Algorithms, Machine Learning, Lean Six Sigma Green Belt Certification
- **Bachelor of Arts in Business Administration** *(Sept 2017 – Mar 2021)*
  - Specialization: Supply Chain Management and Finance

PROFESSIONAL EXPERIENCE

Data Engineer – PitchBook (Capstone)
Sept 2024 – Present

- Build ETL pipelines using Python and Snowflake to monitor customer feedback, reducing manual tracking time by 20%.
- Design and build Power BI dashboards monitoring product releases and their impact on data yield.

Supply Chain Data Engineer Intern – TSMC
June 2024 – Sept 2024

- Improved cycle time forecast accuracy by 3% using machine learning techniques (scikit-learn) and deep learning models (TensorFlow, time-series neural networks).
- Built automated ETL pipelines with Apache Airflow and Python, accelerating data ingestion and processing speeds by 20%.
- Integrated CI/CD pipelines using Azure DevOps, automating unit tests and deployment processes, reducing deployment times by 15%.
- Applied PCA for dimensionality reduction and leveraged Random Forest feature selection to optimize model performance, reducing training time by 25%.

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

- Analyzed semiconductor production data with Python (Pandas), SQL, and PySpark, achieving $10M in capital expenditure savings.
- Led capacity planning and capital investment strategies for CMP tools, optimizing machine utilization across Taiwan fabs and contributing to $5M in cash flow improvements in FY23.
- Developed Power BI dashboards to monitor key manufacturing KPIs, identifying and mitigating production risks.

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

- Used SQL and Power BI to identify and address production bottlenecks, reducing product cycle time by one week.
- Processed and transformed sales data using Excel Power Query to identify seasonal trends.
- Developed regression models in Power Pivot to forecast demand for raw materials and optimize logistics planning, reducing stockouts by 5%.

PROJECT EXPERIENCE

Real Estate Data Science Project – University of Washington
Sept 2024 – Present

- Designed and implemented an automated ETL pipeline using Apache Airflow to orchestrate data extraction, transformation, and loading (ETL), efficiently processing and storing structured data in Amazon S3 for scalable and cost-effective storage.
- Developed and deployed a FastAPI-based machine learning API on AWS EC2 for real-time house price prediction.
- Implemented RNN models for housing price forecasting, achieving an accuracy of 77%.

Retail Industry Relational Database Project – University of Washington
Sept 2023 – May 2024

- Designed schemas and developed an SQL database using Azure SQL Server to support SQL queries and data visualization using Tableau.
- Orchestrated and containerized data workflows using Python, Apache Airflow, Docker to support automated data processing.