

# Jay Kuo

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## Skills

**Technical** Python (Pandas, PyTorch, NumPy, Scikit-learn), R(ggplot2), SQL, HTML/CSS, JavaScript, Excel  
**Soft Skills** Data Analytics, Data Visualization, Process Improvement, Finance, Management Information Systems (MIS), Supply Chain Management  
**Languages** Mandarin, English

## Experience

### TSMC

Production Planning Engineer Summer Intern

Hsinchu, Taiwan

Jul 2023 - Sep 2023

- Honors:** Winner of Final Intern Competition within TSMC Corporate Planning Organization
- Developed demand forecasting model with LSTM that increased forecast accuracy by 5% and enhanced advanced packing capability by 10%
- Assessed KMeans algorithm for product pattern analysis, which led to a 15% improvement in efficiency and a 10% reduction in electronic waste
- Optimized BI dashboard to provide clear visualizations and interactive features, improving data access times by 20% and enhanced overall customers' satisfaction by 15%

### Taiwan Institute of Economic Research

Data Analyst

Taipei, Taiwan

Sep 2021 - Aug 2022

- Implemented SQL to aggregate over 1000 data points biweekly and visualize insight using interactive dashboards, and boosting productivity by 25%
- Evaluated economic data for Taiwan's small and medium enterprises market to support the prediction of future economic growth, reducing the workload of team researchers by 20%
- Designed and facilitated over a dozen researchers in using quantitative analysis to explain the economic situation of East Asia countries to support a renowned monthly publication
- Incorporated Naive Bayes to perform sentiment analysis on 6 large data sets, enabled actionable recommendations

### Merck & Co., Inc.

Global Procurement Intern

Taipei, Taiwan

Sep 2019 - Aug 2020

- Led the redesign of 6 procurement websites with user experience skills, reducing the workload of team members by 30%
- Mentored 3 interns by providing guidance on programming languages (Python, JavaScript), web design, business analysis, and optimization
- Evaluated procurement data analysis and identified cost-saving opportunities and proposed process modifications that reduced operational expenses by 15%
- Revamped approval process for vendor purchasing by building a self-service workflow, led to 70% of procurement orders being more efficient and 25% less time to complete

## Education

### Georgia Institute of Technology

MSc in Computer Science

Remote

Aug 2023 - Jun 2024

- Relevant Coursework:** Machine Learning for Trade, Knowledge-Based Artificial Intelligence
- Specialized in interactive intelligence

### University of Washington

MSc in Information Management

Washington, United States

Sep 2022 - Jun 2024

- Honors:** Information School merit-based Scholarship
- Relevant Coursework:** Machine Learning, Scaling, Application, and Ethics
- Cumulative GPA: 3.98/4.0
- Specialized in data science, business intelligence, and cybersecurity

### National Chengchi University

BSc in International Business

Taipei, Taiwan

Sep 2016 - Jun 2020

- Honors:** School representative of Asian economic seminar GPAC
- Relevant Coursework:** Statistics, economics

## Project

### Engagement and Trend Patterns analysis on Reddit

Python

Washington, United States

Mar 2023

- Examined comment and like counts across posts to identify patterns in user engagement
- Deployed natural language processing techniques to analyze the language and sentiment of popular posts and comments, and track changes in topic trends over time