

# CHU-YUN (RILEY), HSIAO

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## PROFILE

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- MS Business Analytics and Information Management student seeking business and data analyst position
- **Skills:** Machine Learning, Data Mining, Unstructured Data Analytics, Database Management, Data Visualization, Cloud Deployment, Optimization, Simulation, Time Series Analysis, Sensitivity Analysis
- **Tools:** Python (Pandas, Matplotlib, Scikit-learn, TensorFlow, Keras) MySQL, SAS, Tableau, Azure, AWS, Smartsheet, Excel (@Risk, Optimization, Simulation)
- **Certifications:** AWS Cloud Practitioner, Microsoft Azure Fundamentals, Operations Research with SAS Optimization, Python Fundamental (DataCamp), aCAP

## EDUCATION

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**Purdue University, Daniels School of Business**

**West Lafayette, IN**

*Master of Science in Business Analytics and Information Management*

**August 2024**

- Merit-Based Scholarship

**National Taipei University (NTPU)**

**New Taipei, Taiwan**

*Bachelor of Business Administration in Finance Cooperative Management*

**January 2019**

- GPA 3.93/4.0; GPA for last 60 credits 4.0/4.0
- Studied abroad: Memorial University of Newfoundland - Won the Ministry of Education's Scholarship

## PROFESSIONAL EXPERIENCE

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**Indiana Farm Bureau Insurance**

**United States (Remote)**

*Data Analyst Intern (via Purdue University Industrial Practicum)*

**January 2024 – April 2024**

- Optimized the home insurance inspection process, achieving a high ROC AUC score of 0.89 with a random forest model with a projected improved resource efficiency and enhanced risk assessment accuracy by 38%

**E.SUN Commercial Bank Ltd.**

**New Taipei, Taiwan**

*Foreign Exchange Specialist, New Taipei Global Commercial Banking Center*

**October 2019 – October 2021**

- Analyzed import and export documents with International Commercial Term to evaluated authenticity of transactions daily between clients and trading partners
- Established database of clients' products with Excel, scrutinizing clients' documents 50% more efficiently
- Managed 20+ client relationships including international companies; interfaced with treasury teams, ensured realizing companies' financial requests, increased clients' transactions 10% and error free
- Implemented fund management of dieting deposits of banking center, utilized Google Sheets to build online spreadsheet to present meal fees openly and transparently

## ACADEMIC PROJECTS

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- Airbnb Superhost Analysis: Analyzed over 30,000 Airbnb hosts, proving the significant effect of superhost toward revenues via difference-in-different estimation, predicting the potential superhosts via a Gradient Boosting model with 98% accuracy, delivering strategic recommendations to Airbnb by providing customized incentives for potential superhosts
- Forecasting Walmart's Time Series Sales Data: Captured the seasonality, short-term and long-term memory of sales trends by adding lag features, moving, and expanding averages into our model, achieving an impressive RMSE of 0.1903 via an LSTM model for predicting the future 28 days sales of Walmart.

## LEADERSHIP ACTIVITIES AND HONORS

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- Crossroads Classic Analytics Challenge 2024: Placed 8<sup>th</sup> on Kaggle leaderboard with achieving 98.83% accuracy for helping the NCAA optimize ticket sales of its championship by predicting customer behavior.
- Bankruptcy Prediction on SAS Enterprise Miner: Placed 10<sup>th</sup> on Kaggle leaderboard, aimed at predicting bankruptcy probabilities using 64 economic indicators by building ensemble gradient boosting and neural network models on SAS EM