

# Chuan-Ning(Johnny) Chang

[johnnychang898@gmail.com](mailto:johnnychang898@gmail.com) | (217) 888-0501 | <https://www.linkedin.com/in/chuan-ning/> | Urbana-Champaign, IL

## EDUCATION

### University of Illinois Urbana-Champaign, Gies College of Business

Master of Science in Business Analytics

*Concentration:* Data Analytics in Finance

### University of California, Irvine

Bachelor of Science in Business Information Management

*Honors:* Dean's Honor List

**Champaign, IL**

Expected Graduation: May 2024

**Irvine, CA**

September 2019 – June 2023

GPA: 3.7/4.0

## EXPERIENCE

### Caterpillar Inc

*Business Analyst*

**Champaign, IL**

August 2023 – Present

- Collaborated to implement a standard, global, outbound freight expense forecasting methodology across all Facilities and Business units
- Improved forecast accuracy by using 3 different predictive analytical models to help in demand forecasting, inventory management, route optimization, and freight capacity utilization
- Compared historical data with predicted data and calculated models' minimum mean squared error (MSE) in improving transportation network efficiency

### Deloitte

*Customer Relationship Management Intern, Risk Advisory Department*

**Taipei, Taiwan**

June 2021 – August 2021

- Performed comprehensive environment testing on the client's new CRM Cloud system employing Salesforce
- Transferred essential knowledge from the client's new CRM Cloud operation handbook into visualizing information, such as tree diagrams and flow charts, in PowerPoints to better train clients
- Communicated effectively with clients to discover additional functionalities to incorporate into the system

## PROJECTS & ACTIVITIES

### Property Value Regression Analysis

*Big Data Analytics Project*

**Champaign, IL**

October 2023 – December 2023

- Conducted exploratory analysis using the most recent historical data, over 50000+ rows, to uncover factors influencing property values, such as size, age, neighborhood accessibility, and room count
- Applied preprocessing and feature engineering techniques to develop highly accurate predictive models using ensemble methods using R
- Delivered key insights for identifying and addressing risks in property valuations through the iterative refinement of models

### Yelp Restaurant Planning Data Analysis

*Enterprise Database Management Project*

**Champaign, IL**

September 2023 – October 2023

- Developed an ETL pipeline to process Yelp Kaggle JSON data using Pandas, and integrated the transformed data into Azure and MySQL
- Employed ERD and over 20+ SQL queries for effective data organization and access

### Netflix's Movies and TV Shows Descriptive Visual Analysis

*Information Visualization Project*

**Irvine, CA**

March 2023 – June 2023

- Utilized inferential data insights and turned data into 10 different effective visualizations, including clustered bars, histograms charts, and density charts using the Python Matplotlib library and Tableau
- Analyzed and filtered relevant information from a total of 8659 data of movies and TV shows on Netflix between 2016 and 2021 utilizing Data Analysis tools and PivotTable in Excel

### University of California Taiwanese/Alumni Union

*Co-Funder / President*

**Irvine, CA / Taipei, Taiwan**

March 2020 – September 2022

- Developed a collaborative Taiwanese student association and UC alumni connection with all 9 UC schools to share diverse cultures, experiences of schools, and professional opportunities
- Generated and helped over 250+ students' network throughout the whole California region
- Enhanced leadership performance in public speaking and organizational skills

## SKILLS

**Technical Skills:** Excel, Python, R, SQL, SAS, Spark, ETL, Tableau, PowerBI, AWS, Azure, MongoDB, KNIME