Yufeng Hao

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EDUCATION

Cornell University   Ithaca, NY
M.Eng. in System Engineering （GPA: 4.06/4.4）   Sept. 2024 to Dec. 2025
 Core Courses: Model-Based Systems Engineering, Simulation Modeling and Analysis, Machine Learning, Systems
 Analysis Behavior and Optimization, Python for Finance, Big Data Technology

Syracuse University   Syracuse, NY
B.Sc. in Mathematics (GPA: 3.674/4.0)   Sept. 2020 to Jun. 2024
Core Courses: linear algebra, probability, real analysis, differential equation, abstract algebra

CORNELL RESEARCH EXPERIENCE

Football Club Valuation Model Development   Sept.2024-May.2025
- Enabled data-driven decision-making for managers and investors by developing a Python-based model to evaluate the financial health, market value, and operational efficiency of football clubs
- Conducted system design using SysML, Context Diagrams, and Use Cases to define user requirements, functional modules, and data interaction flows, streamlining the development process and reducing integration issues
- Let the team by setting clear goals, delegating tasks effectively, and fostering a collaborative team culture, coordinating a multidisciplinary team to integrate financial modeling, data analysis, and visualization functionalities
- Implemented advanced valuation techniques such as Discounted Cash Flow and P/E ratio analysis with real-time data updates and trend analysis for dynamic assessments enhancing the accuracy and reliability of financial forecasting

Workplace Diversity Simulation Project   Sept.2024-Dec.2024
- Conducted a dynamic simulation analysis to explore the impact of gender, race, and nationality on the workplace.
- Developed and implemented a Continuous-Time Markov Chain (CTMC) model to simulate employee flow, including recruitment, promotion, and exit, under various diversity-focused policies
- Evaluated individual and combined effects of policies such as female-biased promotion, diversity recruitment for minority groups, external senior hiring, and structural barriers

INTERNSHIP

COFCO Coca-Cola Beverages (Beijing) Ltd.   Jul.2023- Aug.2023
Data Analysis Intern, Marketing Department
- Extracted and cleaned market data by removing duplicates and handling missing values, improving data accuracy by over 95%, which significantly enhanced the efficiency of downstream analysis and decision-making
- Facilitate a better understanding of market trends through transformed raw data into quantifiable metrics, including monthly income, brand market share, and year-over-year growth
- Visualized data for sales distribution and growth trends to aid decision-making and strategic planning for the department

Huaneng Guicheng Trust Co., Ltd.   Jul.2022- Sept.2022
Trust Investment Intern
- Organized and quantified data for capital market trust companies and performed comprehensive evaluations of company targets on a weekly basis, reduced risk exposure by 12% through better-informed investment strategies
- Conducted analysis and research on commodity price trends, contributing insights to the company's understanding of market dynamics, resulting in a 10% increase in forecast accuracy and reducing procurement costs by 7%
- Acquired domain knowledge and mastered data processing techniques, including Excel-based pivot table creation
- Presented over 30 comprehensive reports, improving stakeholder comprehension and facilitating data-driven decision-making across 3 departments

LANGUAGES & SKILLS

Languages: Chinese/Mandarin (Native), English (Proficient)
Club Experience: Former Marketing Director of the Syracuse Chinese Union.
Computer Skills: Python, R, Excel VBA
Publications: Yufeng Hao, 2022. The Impact of the Pandemic on International Soccer Clubs Such as FC Barcelona. 6th International Conference on Economic Management and Green Development (ICEMGD 2022).
Interests: Soccer, Chinese Caligraphy, Photography