Qingyu Yi

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Education

Cornell University Aug. 2024 – Dec. 2025
M.E. in Data Analytics Ithaca, NY

University of Illinois Urbana-Champaign Aug. 2020 – May 2024
B.S. in Mathematics Champaign, IL

Experience

University of Illinois Urbana-Champaign, Rokwire Sep. 2023 – May 2024
Research Assistant Champaign, IL

- Conducted research on factors influencing student graduation rates by integrating diverse datasets, including Wi-Fi usage, app activity, housing, and academic records.
- Extracted and preprocessed above data from university databases, using AWS Athena and SQL to transform raw data into structured formats for analysis.
- Designed and implemented an early-warning system using predictive analytics to identify at-risk students.

International Data Corporation May. 2023 – Oct. 2023
Data Analyst Assistant, Software Industry Beijing, China

- Gathered customer and market data, leveraging Excel to classify, verify, and analyze key performance metrics.
- Analyzed sales data from customers to predict industry trends and company market share using regression and time series models.
- Presented predictive insights to management and clients, supporting data-driven decision-making for strategic planning.

China Securities May. 2023 – Jul. 2023
Financial Analyst Assistant, Research & Dev. Beijing, China

- Collected and analyzed financial data, including stock prices and futures contracts, to support decision-making.
- Provided financial advisory services for a new energy company, leveraging data for market research.
- Collaborated on a business analysis report exploring the integration of new energy vehicles and the metaverse.

FRIMEC International Feb. 2021 – Aug. 2021
Data Analyst Assistant Jiangsu, China

- Verified monthly data from sales, supply chain and production and reconciled discrepancies to maintain accurate operational records.
- Developed an automatic model to incorporate daily order quantities and shipping constraints to arrange shipment schedules.
- Examined production capacity and raw material availability to optimize daily production runs, reducing downtime and costs.
- Acquired foundational Computer-Aided Design (CAD) in air-conditioning field.

Projects

Optimizing E. & J. Gallo's Operations with Data Science | ***Python*** Oct. 2024 – Present

- Advisor: Shane G. Henderson
- Analyzed demand trends and product cannibalization to optimize inventory management and product assortment.
- Developed safety stock metrics and demand-driven production scheduling to enhance supply chain efficiency.
- Proposed a future-state supply chain model incorporating multisourcing and route diversification.

Finding the Math Department's Deep Structure | ***Python, JavaScript*** Aug. 2023 – Jan. 2024

- Developed a JavaScript tool to automate the collection and analysis of faculty publications.
- Applied phylogenetic tree analysis to identify barycenters and map academic relationships.
- Utilized Singular Value Decomposition (SVD) to detect patterns in research interests.

High-frequency Stock Price Movements and Microstructure | ***R, Bloomberg*** Oct. 2022 – Mar. 2023

- Analyzed 20 years of Dow Jones stock data, computing log returns and realized volatility.
- Identified and documented large volatility events in 100-second blocks.
- Applied stochastic volatility models and the Bi-power method to estimate volatility dynamics.

Technical Skills

Languages: Python (Advanced), Java (Advanced), C++ (Basic), JavaScript (Intermediate), SQL (Intermediate)
Tools: Excel, Bloomberg, Microsoft Office, CAD (Basic)
Platforms/Frameworks: AWS, GCP, Linux, Jenkins, GitHub, JUnit, WordPress