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125 College Ave, Ithaca, NY 14850

EDUCATION

Cornell University, College of Engineering, Ithaca, NY

Master of Engineering in Financial Engineering

Expected December 2025

cell: 814.699.1888

Columbia University, New York, NY

Master of Arts in Statistics, GPA: 3.63

May 2024

The Pennsylvania State University, University Park, PA

Bachelor of Science in Data Sciences, Statistics, and Mathematics, GPA: 3.76

May 2023

Selected Coursework: Bayesian Stat, Time Series, Game Theory, Big Data, Machine Learning, Stochastic Processes, Optimization

LICENSES/SKILLS

Licenses: SIE issued on July 29th, 2024 | Skills: Python, R, SQL, Mathematica, Capital IQ, Excel, Statistical modeling

EXPERIENCE

Quantitative Analyst Intern, Guangdong Kangqi Asset Management Co., Ltd., Guangdong, China. Dec. 2024 to Jan. 2025

- Utilized the JoinQuant platform and API for time series stock data, and constructed a Market Neutral strategy that aims to maintain a low Beta and a high Alpha by trading ETF options as a hedge of selected stocks.
- Calculated metrics such as VaR, momentum, volatility, etc. in backtest strategy

Quantitative Researcher, Intersection Capital, San Diego, CA (Hybrid)

Jan. to Sep. 2024

- Conducted weekly data analysis projects on various finance-related topics, including a brief introduction of using a trend-following strategy to make a profit dealing brent crude oil futures and a Market Making strategy aiming for Delta-neutrality.
- Set up and maintained SPV for capitalization; Built cap model, peer comparisons, precedent transactions, and DCF
 models through Capital IQ for an ongoing project that is on track to IPO in Q1 2026; gave weekly capital market
 updates for investors; and helped to set up and maintain SVPs for partners.

Summer Quantitative Associate, Morgan Stanley, New York, NY (Hybrid)

June to Sep. 2023

- Developed a momentum trading strategy using multi-factor model; constructed multiple momentum factors (MACD, RS, etc.) using daily stock return, designed trading signals, and performed backtest in Python
- Implemented backtesting using JoinQuant platform; performed Monte Carlo simulation for inferences of potential outcomes of different positions and timing; and calculated the Sharpe ratio, max drawdown, CVaR, etc.

PROJECTS

Explainable and Robust Graph Neural Network for Spatio-Temporal Prediction

Jan. to May 2024

Columbia University, New York, NY

- Benchmarked SHAP in various regression and classification methods on multidimensional spatio-temporal data; explained variable compositions in GNN models using SHAP on different data
- Identified the range of significance of SHAP outputs and key indicators of human migration during significant events

Understanding and finding arbitrage in NBA game spreads, Yale University, New Haven, CT

July to Aug. 2022

- Predicted point differentials of NBA games using past game results and stats; found asymmetric effect on "Fatigue & Star Player" and developed a betting strategy that systematically outperforms the baseline method
- Scrapped the sportsbook site goldsheet.com for all results and spread information using R and Regex; cleaned scrapped data, retaining only the basic game information, point spreads, and box scores
- Constructed a design matrix to predict game results between 2013 and 2018; calculated and compared prediction accuracy (RMSE) and the win/loss ratio in all scenarios
- He, Yuqi, et al. "Predicting Score Differences in NBA Regular Season Basketball Games." Proceedings of the 2023 5th Asia Pacific Information Technology Conference: https://doi.org/10.1145/3588155.3588169

ACTIVITIES/INTERESTS

Lifting, Swimming, Soccer