Takahiro Aiki

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Education

New York University - Leonard N. Stern School of Business New York, NY

BS in Honors Mathematics and Finance Cumulative GPA: 3.93/4.00

Expected May 2027

• Relevant Coursework: Linear Regression Forecasting, Linear Algebra, Honors Theory of Probability, Discrete Math, Multi-Variable Calculus, Principals of Financial Accounting, Analysis, Microeconomics Shibuya Senior High School Tokyo, Japan

High School Diploma Cumulative GPA: 4.93/5.00, SAT: 1590

Graduated Mar 2023

- Honors/Awards: Honors English (all years), Cum Laude, Dean's List, Speaker at Graduation
- Relevant Coursework: Calculus, Combinatorics, Statistics, English, Advanced Physics, Chemistry, History

Professional Experience

Blockhouse Capital

New York, NY

May 2024 - Present

- Quantitative Research Intern
- Incorporated academic papers on stochastic control and calculus to model the expected slippage of trades
- Managed a team of 4 people to construct strategies for reducing slippage when trading options and equities
- Applied machine learning models and performed data analysis in Python to construct and validate strategies

Leadership & Extracurricular

Quantitative Finance Society

New York, NY

Ouantitative Analyst

Sep 2023 - Present

- Created monthly pitches that exploited market phenomenon through trading according to quantitative traits
- Gained exposure to long/short and macroeconomic trading strategies through the club's weekly meetings
- Performed data analysis trades in Python using market data, statistical processes, and quantitative estimators

Business Analytics Club

New York, NY

Quant Team Member

Sep 2023 - Present

- Created a data analytics project that applied multivariate linear regression and hypothesis testing to markets
- Engaged in workshops focused on probability theory, combinatorics, financial math, and trading strategies
- Competed in inter-club trading, programming, market-making, and investing competitions during meetings

Stern Program of Undergraduate Research

New York, NY

Undergraduate Research Assistant

Ian 2024 - May 2024

- Worked under Professor Junpei Komiyama to research multi-agent influence diagrams and their application
- Created reports on relevant academic papers to present to Professor Komiyama and develop research topics
- Decreased the time complexity of solving decision trees by applying learned concepts in influence diagrams

Personal Projects

Predicting Seasonality with Long-Term Short Memory

May 2024 - Jul 2024

- Observed cyclicality in XLY (SPY Consumer Discretionary Sector ETF) through time series decomposition
- Trained model on 10 years of data and traded 2 years for 18.75% annualized returns and 1.29 Sharpe ratio

Tendencies for US Equities to Trend in Different Regimes

Jan 2024 – Apr 2024

- Found tendencies for US equities to trend in risk-averse and risk-seeking regimes and made a trend-based strategy that dynamically changed the notional amount traded based on the perceived risk-appetite at the time
- Optimized for trade sizing and target volatility, resulting in 16.28% annualized returns and 1.58 Sharpe ratio

Additional Information

Skills: Competitive Math (top 50 in Japan Math Olympiad), Python, Pandas, Bloomberg, Word, Minitab **Interests:** Watching/Playing Basketball, Chess, Poker, Cooking, Traveling, Violin, Soccer, Sightseeing