AIDAN KARDAN

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EDUCATION

WASHINGTON UNIVERSITY IN ST. LOUIS, COLLEGE OF ARTS & SCIENCES | St. Louis, MO **Expected May 2025**

Bachelor of Science in Mathematics & Economics | Minor: Statistics

NCAA Student-Athlete (2021-2023) | Math Tutor | GPA: 3.85/4.00

PROFESSIONAL SUMMARY

Aspiring Quantitative Researcher with strong foundations in mathematics, statistics, and economics, proficient in Python, R, MATLAB, and Excel for statistical analysis and inference. Skilled in regression analysis, time series forecasting, and equity research (technical, fundamental, and market dynamics analysis). Experienced in algorithm development and deployment using numerical methods such as gradient descent, bisection, Newton's method, inverse CDF, and acceptance-rejection methods. Knowledgeable in modern statistical techniques, including MCMC, bootstrapping, EM/SEM algorithms, and model validation, with growing expertise in machine learning concepts including supervised/unsupervised learning, and model evaluation.

Experienced Equity Researcher | Remote Work **August 2023 – Present**

- Developed and executed a personal equity strategy combining long-equity and day-trading positions, achieving and maintaining over 100% return on initial investment.
- Conducted extensive research and backtesting of technical indicators using ThinkorSwim, focusing on market behavior, price action, and identifying trading opportunities.
- Utilized technical (VWAP, SMAs, EMAs, Bollinger Bands) and fundamental analysis to inform trading positions.
- Implemented robust risk management strategies, incorporating stop-losses based on sentiment, volume and volatility indicators (ATR, RSI, ADX) to navigate market uncertainty and minimize downside risk

Saggar & Rosenberg, Audit, Assurance, M&A Intern | Rockville, MD **June 2023 – August 2023**

- Conducted 200+ hours of research on financial statements, auditing, and business valuations, supporting M&A deals with data-driven financial projections.
- Assisted in a $1M M&A deal by analyzing financial statements, preparing P&L projections, and collaborating with senior management to ensure deal deliverables.
- Applied risk assessment and audit sampling techniques to evaluate private companies, demonstrating strong analytical and problem-solving skills.

BFI Infinity, Asset/Wealth Management Intern | Zurich, Switzerland **May 2023 – June 2023**

- Created tools in Excel to streamline client portfolio management for multi-currency accounts, ensuring alignment with investment objectives.
- Gained exposure to Bloomberg Terminal for options pricing, volatility analysis, and macroeconomic trends, developing strong financial data analysis skills.
- Researched global investment strategies, including ETFs and quantitative investment approaches, contributing to portfolio diversification discussions.
- Assisted in evaluating and optimizing risk management strategies for client portfolios.

ATA Aerospace, Summer & Winter Intern | Greenbelt, MD / Remote Work **May 2022 – January 2023**

- Analyzed large datasets from NASA's Aqua-MODIS satellite using Python, automating data processes and creating visualizations to support scientific observations.
- Developed Python code for data extraction and interpolation, assisting NASA scientists in validating environmental data.
- Completed NASA certification courses in Risk Management, Probability & Statistics, and Probabilistic Risk Assessment, emphasizing statistical reasoning and risk analysis.

PROFESSIONAL CERTIFICATIONS AND RECOGNITION

Recipient of The Dr. Frank & Cindy Byrne Scholarship in honor of Michael Byrne Class of 2015

Washington University in St. Louis Dean's List Recipient (3x)

Recipient of The United Athletic Association Academic and Athletic Excellence Award

Algorithmic Trading from LinkedIn and Time Series Analysis from DataCamp

ACADEMIC SKILLS

Topics in Financial Mathematics (CRR & BSM Options Pricing Models, Implied Volatility, Risk-Neutral Probability Measures, Implied Binomial Trees, No-Arbitrage Pricing of Financial Derivatives), Time Series Analysis (Stationarity, ARIMA(p,d,q), forecasting, parametric methods, non-parametric methods, filtering), Probability, Linear & Matrix Algebra, **Linear Statistical Models with R**, **Data Analytics in Python**, Introduction to Computer Science, Intermediate Statistics & Data Analysis in R, Calculus I, II & III, Econometrics with STATA, Applied Microeconomics for Business, Macroeconomic & Microeconomic Theory, Game Theory, Industrial Organization, Principles of Financial Accounting, Business Fundamentals and Professional Competencies, **Statistical Computation, Topics in Statistics: Machine Learning Methods,** Macroeconomics of Inequality, **Bayesian Statistics, Mathematical Statistics, Multivariate Statistical Analysis, Computational Macroeconomics**

Courses in Bold are also taken by Graduate Students at WashU, several relevant courses will be taken next semester

Computer: Python, R, MATLAB, STATA, Java, Bloomberg, Tableau, PowerBI

Language: Native in English & Farsi, Conversational in Spanish | **Martial Arts:** 2nd Dan Black Belt in Tae Kwon Do