Cameron Hayman

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Statistical Arbitrage Quantitative Developer specializing in advanced statistical methods, machine learning and low-latency infrastructure to systematically identify and capitalize on inefficiencies in global equity markets. Extensive experience designing, implementing and monitoring high- and medium-frequency trading strategies, with a proven record of generating alpha through predictive modeling, cross-sectional analysis, and mean reversion techniques. Adept at translating quantitative research into robust, production-ready trading systems, and collaborating effectively across research, technology, and trading groups to ensure seamless deployment and performance in live markets.

EDUCATION:

M.S. in Data Science | Willamette University, Salem, OR | Expected August 2025
B.A. in Mathematics (Applied Computer Science) | Wells College, Aurora, NY | June 2024
B.A. in Accounting (Auditing) | Washington & Jefferson College, Washington, PA | May 2023 | 150+ credit hours
Minors: Computing and Information Studies | Professional Writing

TECHNICAL SKILLS:

Statistical Arbitrage & Quant Research: Mean reversion, Cross-Sectional Momentum, Pricing Inefficiencies
Programming Languages: *Python,* R, SQL (Postgres, LITE, DuckDB), VBA, BASH, PowerShell, HTML/CSS
Data Visualization & Dashboards: Matplotlib, Seaborn, ggplot2, Shiny, Tableau, Power BI, Gephi, Grafana, Luigi
Software and Tools: Financial Modeling (Excel), Beekeeper, AWS, Docker, Prometheus, PowerPoint, Airflow, ClickHouse
Machine Learning: Regression Models, Neural Networks (MLPs, LSTMs), KNN, SVM, Naïve Bayes

SYSTEMATIC TRADING & RESEARCH PROJECTS:

Systematic Statistical Arbitrage Trade Desk (Python, R, SQL, PowerShell)

- Engineered a live, full-stack trading desk deploying high-frequency, systematic stat-arb strategies
- Developed predictive models for mean reversion and cross-sectional momentum in U.S. & global equities
- Integrated API-driven backtesting to simulate strategy performance, risk, and alpha generation

Alternative Data Alpha Extraction Pipeline (Python, SQL)

- Developed NLP-based text analysis tools to extract predictive signals from earnings calls, 10Q, filings, and news
- Incorporated alternative data into multi-factor models to enhance stat-arb signals and alpha-capture

Geo-Spatial Latency Arbitrage Optimization System (Python, SQL, GIS, Prometheus, PowerShell)

- Designed microsecond-level execution algorithms for capital allocation across international exchanges
- Built statistical models to detect and exploit cross-market inefficiencies and latency arbitrage spreads
- Implemented real-time monitoring and interactive PnL dashboards for performance analytics

Stochastic Price Series Forecasting Model Using Geometric Brownian Motion (R)

- Built a hybrid Monte Carlo/GARCH forecasting engine for equity prices with time-series and 10Q-filing data
- Achieved <4% error rate on 60-day forecasts, validating predictive accuracy in live simulations

RELEVANT EXPERIENCE:

CFA Research Challenge, Willamette University, October 2024 – February 2025

- Co-authored an Equity Research Report on Absci for the CFA Institute National Research Challenge
- Built/stress-tested quantitative valuation models (DCF, DuPont, asset turnover) and forecasted earnings via R.

Technology and Accounting Consulting Intern, HPM Tech Services, Ithaca, NY, May – June 2024

- Automated data analytics and custom-built IT tools to improve business intelligence and risk controls

RELEVANT COURSEWORK:

Quant & ML: Probability & Stats | Neural Nets | Econometrics | Discrete Math | Network Analysis | Survival Analysis
Mathematics: Linear Algebra | Calculus II | Stochastic Processes | Optimization | Abstract Algebra | Applied Physics
Finance and Accounting: Financial Modeling | Business Tax | Managerial Finance | Auditing | Adv. Financial Accounting

EXCELLENCE & COMPETITION RESULTS:

1st Place – Elevator Pitch Competition, Wells College
2nd Place – Business Design Competition, Wells College
NCAA Division III Baseball (Washington & Jefferson College, 2019-2023)
– Highest Active Winning % in D3 Baseball during 4-year tenure (.918) | 3x NCAA Regional Appearances
NCAA Division III Baseball (Wells College, 2023-2024)
– 3rd in Nation in Saves (2024) as High-Leverage Reliever (Wells College)