EMIL WESTLING

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EDUCATION

DUKE UNIVERSITY, THE FUQUA SCHOOL OF BUSINESS   Durham, NC
Master of Quantitative Management: Business Analytics, Finance Track   *May 2025*
Men's Tennis Graduate Assistant Coach and Team Data Analyst, ranked 14th nationally.
Merit Scholarship.
Data Science Coursework: Data Science for Business, Decision Analytics & Modeling, Data Visualization
Finance Coursework: Intermediate Finance, Derivatives, Fixed Income Securities, Risk Management

FURMAN UNIVERSITY   Greenville, SC
Bachelor of Science, Applied Mathematics, Double Major: Computer Science   *May 2024*
GPA 3.9
Full Athletic Scholarship; Men's Varsity Tennis Captain: 25+ h/week practice, competition, volunteering.
Dean's List All Semesters; Phi Beta Kappa; Mathematics Scholarship.
Selected 2024 Post Graduate SoCon Scholar; Mathematics and Computing Honorary Societies.
Selected Teaching Fellow for 'Statistical Methods in R,' guiding 30+ students to master course material.

EXPERIENCE

MORGAN STANLEY   Atlanta, GA
Wealth Management Summer Analyst   *Jun 2023 – Aug 2023*
- Spearheaded a new client outreach system for 400+ clients, strengthening client relationships and facilitating client management.
- Researched potential clients and drafted pitch decks for prospects, helped acquire a $1M+ client.
- Analyzed and pitched two to three investment products and funds weekly, resulting in one fund integrated into group's model portfolios.
- Developed a financial plan for a $4M+ client improved client's likelihood of success by 35%; presented to 50+ executives.

CRUNCHFISH AB   Malmo, Sweden
Software Engineer Intern   *May 2022 – Jul 2022*
- Built a Java-based ASN.1 decoder integrated into payment systems, ensuring secure transaction processing.
- Collected, cleaned, and manipulated image data using Python, driving development of a new hand-tracking machine-learning model.
- Led and organized biweekly brainstorming sessions with project managers and engineers to identify key challenges and opportunities, directly contributing to deploying a new machine-learning model.

SELECTED PROJECTS

Algorithm Trading   *Aug 2023 – May 2024*
- Pursued a year-long algorithm trading research project alongside Dr. Fahad Sultan. Queried data through yfinance API, performed data preprocessing, and generated autoregressive forecasts of Apple and Amazon stocks, achieving an average 89% precision score.
- Generated LSTM deep learning portfolios, optimized weights according to Sharpe ratio to balance risk and return; backtested with historical data, outperforming the S&P 500 15X.

Option Pricing (Black-Scholes)   *Feb 2024 – May 2024*
- Developed MATLAB scripts to price European call and put options using the Black-Scholes model. Created visualizations and conducted sensitivity analysis to understand how option prices depend on underlying security prices and time to maturity.

ADDITIONAL INFORMATION

Languages:	English (Fluent), Swedish (Fluent), German (Basic).
Interests:	Long-Distance Running, Golf, Tennis, Soccer, Reading, Traveling, Skiing.
Technical:	Advanced Excel, Python, R, MySQL/SQL, Java, Tableau
Certificates:	Securities Industries Essentials (SIE), Bloomberg Market Concept (BMC)