

# Max Mayer

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## EDUCATION

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**Northeastern University** | Khoury College of Computer Sciences | Boston, MA **Expected May 2027**

Bachelor of Science in Computer Science & Mathematics, Dean's List GPA: 3.78/4.0

Relevant Courses: Data Structures & Algorithms, Probability & Statistics, Linear Algebra, Discrete Math, CS Theory, Systems

Activities: Quantitative Researcher, Treasurer @ Northeastern Systematic Alpha, Delta Kappa Epsilon, FinHacks Hackathon

## TECHNICAL SKILLS

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**Programming Languages:** Python (Pandas, NumPy, Pydantic, Dagster, statsmodels, SciPy, Matplotlib) Java, C, C#, C++, Racket, LaTeX

**Professional Software:** AWS (S3,  $\lambda$ ), GitHub Actions, Enterprise LLMs, Illustrator, Photoshop, Excel, PowerPoint, Bloomberg Terminal

## PROFESSIONAL EXPERIENCE

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**Incoming Analyst Co-Op** | **Boston Options Exchange** | Boston, Massachusetts **Sep 2025-Dec 2025**

**Summer Analyst, Risk** | **Firm Name by Request** | *Location by Request* **Jun 2025-Aug 2025**

- ❖ Engineered a gRPC interface using AWS  $\lambda$ /S3 for automated hedge trade staging within internal trading system, eliminating manual order entry and simplifying approval workflows, cutting decision-to-trade time by over 90% while still ensuring controls

- ❖ Built a Python pipeline that unifies diverse risk datasets to generate concise daily risk reports, headlining them using enterprise LLM models; accelerates critical-risk visibility and provides a scalable foundation for future data source integration

**Summer Analyst, Risk** | **Firm Name by Request** | *Location by Request* **May 2024-Aug 2024**

- ❖ Developed an automated system leveraging proprietary and conventional quantitative pricing models to generate and visualize risk metrics for flagged portfolios; provided real-time metrics to enhance decision-making efficiency by the management team

- ❖ Created infrastructure using data orchestration platforms to automate the publishing of statistical analyses to centralized dashboards, enhancing data accessibility; established self-service capabilities for teams across the firm to upload and share reports

**Chief AI Officer, Chief Product Officer** | **Finify** | Atlanta, Georgia **May 2023-Aug 2023**

- ❖ Built and launched alpha/beta versions in 3 months of an AI finance chatbot powered by Python, integrating live market data and SEC-approved APIs; led two cross-functional dev teams across the U.S. and internationally to deploy scalable backend infrastructure

- ❖ Drove \$20M valuation by leading breakthrough AI demo at Finify Investors' Conference; presented technical architecture, answered live questions, and showcased novel LLM applications at a time when generative AI was still emerging

**Volunteer Ski Patroller** | **Windham Mountain Club** | Windham, New York **Oct 2020-Present**

- ❖ Completed 600+ hours of on-mountain training service, earning my National Ski Patrol certification in March 2023

- ❖ Developing leadership and crisis management skills by leading 20+ rescues of seriously injured skiers on the mountain, coordinating high-stakes emergency response efforts to ensure skier safety and medical evaluations

## PROJECTS

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**Market Neutral Pairs Trading** | Research (in progress) **Apr 2025-Present**

- ❖ Generated 105% total return, 12% CAGR (Sharpe 1.6) via an out-of-sample Python walk-forward back-test on the S&P 500 (2018-2025) using cointegration, MST clustering, rolling z-score entry/exit, and transaction-cost simulations; currently improving.

**Automated LLM Call Scoring System** | Programming Project **Apr 2024-May 2024**

- ❖ Implemented a Python script (GPT/Whisper APIs) to transcribe and analyze call center interactions, automatically rating calls based on compliance with laws and requirements, enabling rapid call evaluations, improving efficiency

- ❖ Enhanced call classification speed by 60x while reducing costs by 40x with similar accuracy, compared to the companies' human reviewers - this automation streamlined compliance checks and improved call monetization

**Gaming Stockpile** | eCommerce Business **Jun 2020-Jun 2022**

- ❖ Founded and managed all aspects of an online store, specializing in gaming and tech products, overseeing all operations - from website development and brand guidelines to relationships with suppliers and advertisers

- ❖ Grew a \$40 investment into a profitable, growing business, generating an ROI exceeding 10,000% within the first year, while driving 50,000 site sessions, and 2.5 million social media views content creation and audience engagement

## INTERESTS

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Quantitative Puzzles (top 3% of ProjectEuler solvers, Jane Street puzzle leaderboard, see [here](#)), Trading and Global Markets, CTF

Hacking Competitions, Aviation and Space Travel, Legos, Scuba Diving, Outdoor Adventures, DJing, Poker/Blackjack, Manual Cars