

# Matthew Zhou

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## EDUCATION

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**New York University, Leonard N. Stern School of Business** New York, NY  
*B.S. in Business, Concentration in Finance* *Aug. 2022 – May 2026*

**New York University, Courant Institute of Mathematics, Computing, Data Science** New York, NY  
*B.A. in Computer Science* *Aug. 2022 – May 2026*  
*GPA: 3.5/4.0*

**Honors:** 2023 Fall UAA All-Academic Team, Dean's List

**Relevant Coursework:** Data Driven Investing, Processing Big Data for Analytics Applications, Basic Algorithms, Operating Systems, Linear Algebra, Calculus II, Computer Systems and Organizations, Natural Language Processing, Software Engineering, Data Structures, Corporate Finance, Statistics, Principles of Financial Accounting, AI in Real Estate

## EXPERIENCE

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**Data Intern** June 2025 – Oct. 2025  
*The Barton Partnership* *New York, NY*

- Managed and structured the data pipeline for 2,000+ financial services and consulting candidates using Excel and Python, enhancing the firm's tracking system to improve accessibility and maintain integrity across ongoing search projects
- Developed Python scripts that automated data collection and reliably maintained infrastructure for candidate records
- Built and structured comprehensive datasets on consulting professionals, aiding market-mapping objectives for clients

**Undergraduate Research Assistant** Sep. 2025 – Present  
*NYU Stern Department of Technology, Operations, and Statistics (TOPS)* *New York, NY*

- Built a Wikidata ingestion pipeline that discovers missing university entities and generates QuickStatements uploads
- Stabilized the entity discovery system by tuning fuzzy matching to reduce false positives, implementing LLM response caching to cut redundant API calls, and adding structured QA reporting for each run
- Developed a multi-model LLM ensemble with a rotating judge framework, improving F1 from 0.884 to 0.9514

**Data Analytics Intern** May 2024 – Aug. 2024  
*NRG Energy* *Houston, TX*

- Built a Python-based forecasting model to estimate profitability of onboarding new retail face-to-face channel partners
- Developed a working understanding of pricing dynamics within the deregulated electricity market in Texas

**Finance Intern** May 2023 – Aug. 2023  
*Keywise Capital Management* *Shanghai, China*

- Applied financial statement analysis, DCF, and comps analysis to evaluate and compare companies in the EV sector
- Delivered weekly reports highlighting emerging technological trends and operational advancements within the EV industry

## LEADERSHIP & EXTRACURRICULAR ACTIVITIES

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**NCAA Division I Student-Athlete** Aug. 2022 – Present  
*NYU Men's Fencing Team, USA, Globus Fencing Academy* *New York, NY*

- Maintained a full course load with 30 hours per week of training, competition, lifting, conditioning, travel, and film review
- Team achieved #9 National Ranking, advanced to NCAA Regional Championship, NCAA, and US National Championship
- Achieved highest national point list ranking of Cadet (U17) #4 and Junior (U19) #31 among all active US fencers
- Actively participated in recruitment by introducing prospective recruits to team culture, values, and responsibilities

## PROJECTS

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**Citi Bike Traffic Analysis** | *Python, Pandas, GeoPandas, Matplotlib, Seaborn* Aug. 2025 – Sept. 2025

- Analyzed 2024 Citi Bike trip data by integrating weather and holiday datasets to uncover temporal and spatial patterns
- Built geospatial analyses using GeoPandas to model station-level demand and identify hotspots across the network
- Identified clustering behavior and demand imbalances across stations to highlight areas requiring rebalancing
- Analyzed neighborhood variance and inter-station co-movement patterns to inform rebalancing and network optimization

## TECHNICAL SKILLS

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**Languages:** Python, Java, SQL, R, C, Scala, HTML/CSS

**Libraries & Tools:** Apache Spark, Apache Hadoop, Pandas, NumPy, Scikit-learn, GeoPandas, Matplotlib, Seaborn

**Software:** Microsoft Suite, Git/Github

**Other:** English (Native), Mandarin Chinese (Proficient)