

Yifei (Fahy) Gao

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EDUCATION

New York University, Courant Institute of Mathematical Sciences

New York, NY

Degree: *M.S. in Mathematics*

09/2021-10/2022

- *Coursework:* Scientific Computing, Stochastic Calculus, Advanced Topic in Mathematical tools (PhD), Risk and Portfolio Management, Numerical Analysis, Linear Algebra, Machine Learning for Finance, Complex Analysis II.
- *Awards & Experiences:* Grader of CSCI-UA.0101, Accelerated Bachelor-Master Scholarship, MCM Successful Participant, University Research Conference ([Analysis of the Applications of Machine Learning and NLP in Chatbot](#)).

New York University

New York, NY

Degree: *B.A. in Mathematics*

01/2019-05/2021

- *Coursework:* Mathematical Statistics, Theory of Probability, Multivariable Analysis, Program and Data Science (Stern)
- *Awards & Experiences:* [E-board at Fine Arts Society](#), Editor in Chief at NYU.LIVE Media Group, Quantitative Research assistant at NYU Langone, Schreyer Honors Scholar, Founders Day Award, THON volunteer, Alpha Kappa Lambda.

WORK HISTORY & RELEVANT ACTIVITIES

Wifhat

New York, NY

Software Engineer and Product Manager

03/2024-Present

- Engineered data pipelines with Python and SQL to analyze millions of on-chain transactions, identifying trading patterns and labeling over 40,000 crypto wallets with behavioral insights.
- Automated scraping and classification of over 100,000 crypto projects using Playwright and Selenium in Python and TypeScript from sources like getMoni, RootData, and Arkham.
- Built and deployed cron jobs in TypeScript for synchronizing top holders and high-profit traders on Solana to Redis deployed on AWS and ClickHouse, enabling real-time analytics.
- Designed and refined AI model prompts using Gemini 2.5 pro and Open-ai o4-mini for token fundamentals and sentiment analysis, improving model content quality by 40%.
- Authored product specifications and coordinated execution across engineering and design teams to streamline development cycles and deliver user-centric solutions, past products: goatIndex.ai, [moonke.biz](#) and frontrun.pro.

One68 Global Capital under Millennium Management

New York, NY

Quantitative Developer and Trading Assistant

10/2022-07/2023

- Created algorithm to auto-adjust risk estimate using Beta and SPY ETF in Python, improving the accuracy of upside risk and downside risk for merger arbitrage strategy.
- Automated the process of morning reconciliation on JPM Market & Enfusion & Safari, requesting borrows and EOD P&L attribution calculation, resulting in a 40% reduction in manual processing time.
- Deployed the [rational database](#) and created a trader-friendly full stack web application as a research data platform using HTML, Django, AWS RDS, and AWS EC2, reducing query latency by 80% and increasing the daily P&L by over 10%.
- Created an automated fast [web-scraping algorithm](#) to scrape news across publications using selenium, win32com, and pyesseract, overcoming 5 to 10 seconds delay for traders to receive news.

Shanghai Citang Technology Co., Ltd

New York, NY

Software Engineer and Founder

01/2021-10/2022

- Developed a web-scraping algorithm and censorship detector, collecting 30k “healthy” Chinese slangs with definitions
- Designed an ETL pipeline to store 30k scraped Chinese slang words into a relational data base using SQLite and Python.
- Designed and developed a [social media website](#) and a [slang dictionary](#) using React, Django and Vercel with no cost.
- Led a cross-functional team of 2 developers and 2 designers to design web products using Figma and Adobe Illustrator, resulting in reducing cost by 30% and over 10k followers on social media platforms.

Courant Institute of Mathematical Sciences

New York, NY

Researcher (Master thesis) <https://github.com/fahygao/Latent-Semantic-Analysis-NLP>

01/2022-08/2022

- Demonstrated the superiority of Latent Semantic Analysis with Sparse PCA over traditional approaches through theoretical and empirical proofs, using K-means, SVM, and Naïve Bayes. Achieved faster fit and prediction times (10-20 times), and improved interpretability, with leading principal components explaining more variance.

SKILLS AND ATTRIBUTES

- **Skills:** Python, SQL, Django, Bloomberg, Enfusion, JPMorgan Market, AWS EC2, RDS, S3, Rest API, Excel, Git, ETL/ELT, Option Pricing Model, React.
- **Interests:** Art History, Roller Skating, Boulderling, NLP, Guitar, A.I., Math, hiking, Texas Hold'em and more.