# Haoxuan (Steve) LIN

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## EDUCATION

**New York University (NYU)** Jan 2023 - May 2026

*B.S. in Computer Science and Economics (Joint Major)* | **GPA:** 3.62/4.00

## INTERNSHIP EXPERIENCE

**TurboStrat LLC** | *Data Analyst Intern* Jun 2025 - Aug 2025

- Led end-to-end modeling for soccer match outcome prediction, including building a leakage-free data pipeline and conducting benchmarking and evaluation of multiple machine learning models
- Developed a temporally segmented leakage-free data pipeline incorporating team historical data, rolling home-away feature differences, and time-decayed Elo ratings, enabling reproducible training and evaluation workflows
- Through comparative analysis of multiple models, identified Logistic Regression as the best-performing model on the test set, and explored convex blending of ML and market probabilities to balance discrimination versus calibration
- Delivered a 5-page final report providing practical guidance on application scenarios for model versus market probabilities and a technical development roadmap

**USWOO Realty LLC** | *Data Analyst Intern* Feb 2025 - May 2025

- Matched clients with appropriate rental properties by analyzing their budget constraints, location preferences, and other requirements to provide targeted consultation to optimize agreements
- Tracked and maintained a property database with the most recent buildings' pricing and tournament videos to simplify workflows and share resources with colleagues
- Conducted monthly regional rent fluctuation and supply-demand hotspot analysis by synthesizing transaction data and competitor research, delivering visualized reports that supported the marketing team in adjusting 3 pricing strategies
- Developed a Power BI dashboard integrating key metrics such as inventory turnover cycles and customer conversion funnels

## RESEARCH EXPERIENCE

**FinBERT-Based Analysis of Fed Inflation Expectations** Feb 2025 - May 2025

*Supervisor: Prof. Adam Meyers, College of Arts and Science, NYU*

- Aimed to develop a domain-adapted Transformer framework based on FinBERT to quantitatively extract implied CPI expectations from Federal Reserve public texts (FOMC minutes, Greenbook)
- Created the first supervised training dataset by aligning 28,000+ paragraphs from the Fed's internal Greenbook with quarterly CPI forecast changes, enabling direct mapping of narrative text to continuous inflation predictions
- Designed a sentence segmentation model for FOMC minutes to accurately extract CPI-related content
- Replaced the original rSCHOLAR architecture with FinBERT, reducing processing time by 40x
- Designed a hybrid evaluation plan by validating prediction performance on Greenbook paragraphs with MAE metrics, measuring dispersion in inferred signals across policymakers, and analyzing its correlation with market indicators

## PROJECTS

**TerminalUno Python Package** Mar 2025

- Led the design and implementation of TerminalUno, a Python package delivering a command-line version of the classic UNO card game, fully replicating official game rules and stacking mechanics for realistic gameplay simulation
- Engineered a modular Python codebase enabling both standalone CLI execution and programmatic integration, exposing well-documented APIs for seamless embedding into external projects
- Managed collaborative development via Git branching workflows, version control, and code reviews

**Real-Time Facial Emotion Recognition System** Mar 2025

- Developed a containerized machine learning client for facial emotion recognition
- Designed and implemented a real-time facial analysis pipeline using the FER model, optimizing image capture, emotion classification, and metadata storage for efficient database querying and front-end rendering
- Built CI/CD pipelines with GitHub Actions to combine automated testing, linting, and deployment workflows, which achieved over 90% code coverage to ensure code reliability and recoverability

**Competition Tutoring: Consortium for Mathematics and Its Application (COMAP)** Jan 2025

- Supervised two teams participating in the Mathematical Contest in Modeling (MCM) as the tutor
- Guided one team in developing a sustainable tourism plan and policies for Juneau based on local tourism and climate data
- Taught the other team how to design traffic optimization strategies for Baltimore City using transportation datasets

## SKILLS & CERTIFICATES

- **Computer Skills:** Java, Python, MATLAB, C++, SQL, GitHub, JavaScript, CSS,
- **Certificates:** Deep Learning Specialization (Coursera), Database (UC Berkeley, COMPSCIX409.1)