OHAN SHU

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EDUCATION

Georgia Institute of Technology

Atlanta, GA

Master of Science in Quantitative and Computational Finance

Expected Dec. 2025

University of Michigan (Dual Bachelor's Degree Program)

Ann Arbor, MI

Bachelor of Engineering in Computer Science, GPA: 3.77/4.00; Minor: Mathematics

May 2024

Shanghai Jiao Tong University (Dual Bachelor's Degree Program)

Shanghai, China

Bachelor of Engineering in Electrical and Computer Engineering

August 2024

EXPERIENCE

GF Fund Management Co., Ltd.

Guangzhou, China

Dec. 2023 - Present

Quantitative Researcher Intern

- Established a dividend prediction model in the A-share market, utilizing MySQL to extract data from Datayes! and employing NumPy to build a framework for analyzing company dividend patterns. Effectively avoided high dividend traps and constructed a stock selection portfolio that outperformed the CSI Dividend Index's annual return by 3.7%.
- Enhanced the Risk Parity Portfolio Allocation Model using Principal Component Analysis (PCA), and employed the **BackTrader** framework in **Python** for backtesting, leading to a **3%** increase in returns.
- Constructed an investment portfolio with A-share equities linked to commodities to replicate the CRB Index, and used Python to calculate the correlation coefficient for evaluating the portfolio's tracking accuracy.

Northeast Securities Co., Ltd.

Shanghai, China

Quantitative Analyst Intern

May. 2023 - Aug. 2023

- Framed 6 valid A-share daily alphas using self-developed pandas and numpy based backtesting framework, achieving **Sharpe ratios over** > **3** with **turnover under 50**% for momentum, turnover, and volatility strategies.
- Developed a Genetic Algorithm-based factor mining framework using the GPlearn library for automatic factor mining on daily frequency A-share price-volume data, with IC value employed as the fitness function.
- Utilized Tushare API in Python to retrieve close price data for diverse assets, and applied filtering criteria based on specific close price and historical volatility thresholds to generate a pool of selected assets.

MaxNorm LLC

Jersev City, NJ

Quantitative Developer Intern

Feb. 2023 - May. 2023

- Built a decentralized cryptocurrency trading bot using JavaScript, integrating with Polygon chain and Uniswap exchange to enable seamless transactions.
- Implemented a **trend-following strategy** between two cryptocurrencies within the liquidity pool, enabling automatic selling when prices increased and buying when prices decreased.

PROJECT

Strategic Reasoning Group, University of Michigan

Ann Arbor, MI

Agent-based Market-simulator Implementation in C++

Sep. 2023 - 12. 2023

- Designed the Fourheap data structures for auto matching buy orders and sell orders, and integrated it into the marketsim platform's limit order book, markedly enhancing its efficiency in processing and handling multi-unit orders.
- Collaborated on the development and rigorous testing of the interface bridging marketsim with off-the-shelf reinforcement learning algorithms, aiming to optimize algorithmic trading strategies.

College of Engineering, University of Michigan

Ann Arbor, MI

Deep-learning-based Multi-modal Fusion with Humor Semantics

Feb. 2023 - Apr. 2023

- Developed and implemented an Attention-based Multi-modal Fusion with Humor Theory model for meme humor classification in **PyTorch**, leveraging both **text and image embeddings** to detect humor in memes.
- Utilized the Memotion 2.0 dataset and preprocessed the dataset by extracting text using Google OCR system, enhancing image quality, and fine-tuning RoBERTa to achieve a final embedding of 768D.
- Conducted extensive hyperparameter tuning and evaluation on the Memotion dataset, outperforming the published best model which used the Bert model by 1.3%.

TECHNICAL SKILLS

Programming Languages: C/C++, Python, Matlab, SQL, R, Stata, Javascript, Typescript, Solidity, Java

Tools: Git, Jupyter Notebook, Linux, Docker, Bash, Sklearn, PyTorch, LaTeX