Yujia Huang

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Education

Southwestern University of Finance and Economics **Sep 2023 – 2027**
Bachelor of **Finance**; Minor in **Business Administration**; Honors Program in **Mathematics**

Skills & Languages

Programming: Python, Java, VBA, SQL
Languages: Chinese(Native); English(Experienced)

Experiences

BigQuant | Quantitative Research Intern **Jul 2025 – Sep 2025**
- Developed ML stock selection strategies (LightGBM, XGBoost, CatBoost) with avg. Sharpe > 2.0; deployed live trading strategies via QMT integration.
- Built high-frequency ETF timing and daily fund selection strategies (index, sector, Smart Beta).
- Designed futures strategies: processed 700K+ minute/tick data via DAI-SQL; replicated/developed 10+ strategies on Huatai Futures.
- Developed deep learning crypto strategies (DNN/CNN) using BigQuant modules and Binance data; integrated OKX API for live deployment.

China Blockchain Research Center | Research Intern **Jan 2024 – Apr 2024**
- Conducted investment research on modular Layer 2 projects (e.g., Manta); created six-dimensional evaluation framework; achieved simulated returns over 300%.
- Analyzed on-chain data and market indicators (L2 dominance 77.2%, Celestia +450%); tracked ZK ecosystem for risk/opportunity identification.

Projects

Quantitative Backtesting Platform | Full-stack Developer **Mar 2025 – Apr 2025**
- Built a cloud-native quantitative platform on Sealos to support strategy design, backtesting, simulated trading, and data orchestration. Utilized Cursor and AI-assisted tools to streamline full-stack development and deployment.
- **Responsibilities:**
  - Built frontend with Vue 3 + TypeScript; developed key modules and integrated charting and dark/light themes.
  - Developed Node.js backend with WebSocket support; enabled sandboxed strategy execution and realistic backtesting API.
  - Optimized performance with virtual scrolling, lazy loading, and PostgreSQL sharding + caching.
  - Implemented strategy versioning, task scheduling, and CI/CD with monitoring for stable operations.
- **Achievements:**
  - Supported 30+ indicators and 6 strategy types; 500+ daily backtests with <50ms latency.
  - Boosted frontend FCP to 0.7s and backend QPS to 1500+; Lighthouse score 92.
  - Maintained 99.95% uptime; AI-assisted coding enhanced development efficiency.

Awards

WorldQuant Brain Infinity Champions 002 — Alphathon 2023 | Global 3rd **Aug 2023 – Sep 2023**
- Built multi-factor models (50+ Alpha factors), achieving Sharpe > 1.9 and 70%+ active rate.

Courses & Certificates

Coursera: Mathematics for Machine Learning — Linear Algebra Aug 2024 – Sep 2024
Coursera: Probability & Statistics for Machine Learning and Data Science Dec 2024 – Jan 2025
Coursera: Calculus for Machine Learning and Data Science Jan 2025 – Feb 2025