

Yujia Huang

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Education

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