

# Yujia Huang

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## EDUCATION

**Southwestern University of Finance and Economics | Finance; Business Administration**

Sep2023-2027

- Enrolled in the Honors Program in Mathematics

## SKILLS

Experienced: English, Chinese, Java, MySQL

Skillful : VBA, Python ( NumPy, Pandas, LightGBM, XGBoost, CatBoost, Matplotlib, Seaborn, Plotly )

## INTERNSHIP

**BigQuant | Quant Research Intern**

Jul 2025 - Sep 2025

- Developed 40+ daily-frequency stock selection strategies using machine learning (avg. Sharpe > 2.0); contributed to BigQuant SDK development and deployed live trading strategies, integrating with QMT for automated execution.
- Built daily-frequency fund selection and high-frequency ETF timing strategies covering index, sector, and Smart Beta.
- Designed high-frequency futures strategies: cleaned, time-synchronized, and cross-validated 700K+ minute-level and tick data via DAI-SQL, then replicated/developed 10+ strategies on Huatai Futures.
- Developed deep learning cryptocurrency strategies using BigQuant visual modules and Binance data (DNN/CNN); summarized OKX order API for live deployment and iterative evaluation.

**China Blockchain Research Center | Research Intern**

Jan 2024 - Apr 2024

- Conducted investment research on modular Layer 2 projects like Manta, creating a six-dimensional evaluation framework (Executive Summary, Market Overview, Project Introduction, Investment Highlights, Valuation, and Risk Factors) and form a "cautiously optimistic" investment outlook.
- Analyzed on-chain data, market indicators (e.g., L2 dominance at 77.2%, Celestia's 450% market cap growth), Proposed strategic asset allocation, continuously tracked market fluctuations and ZK ecosystem developments to identify technical risks and entry opportunities, achieving simulated returns over 300%.

## PROJECT

**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 & dark/light theme systems.
- 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 reached 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 with heterogeneous data fusion (50+ Alpha factors), achieving Sharpe ratio >1.9 and 70%+ active rate.

## COURSES

Coursera Mathematics for Machine Learning: Linear Algebra

Aug 2024 - Sep 2024

Coursera Probability & Statistics for Machine Learning & Data Science

Dec 2024 - Jan 2025

Coursera Calculus for Machine Learning and Data Science

Jan 2025 - Feb 2025