




Jia-Jie Chen

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London, UK


EDUCATION

- **King's College London** September 2024 - September 2025
MSc in Computational Finance London, UK
 - Recipient of the prestigious **Sam Goodenough Scholarship** for academic excellence.
 - Awarded **Upper Second-Class Honours (2:1)** with an overall average of **68%**.
 - Focused on **quantitative finance, derivatives pricing, and high-frequency trading**.
- **University of Southampton** October 2021 - June 2024
BSc (Hons) in Computer Science Southampton, UK
 - Awarded **Upper Second-Class Honours (2:1)** with an overall **average of 68%**.
 - Relevant coursework: **Machine Learning, Object-Oriented Programming (OOP) and Software Engineering Principles**.
 - Final-year project: Conducted an in-depth **analysis of arbitrage opportunities within cryptocurrencies** and developed a model to **identify price inefficiencies** across exchanges.

EXPERIENCE

- **Trading Labs**  April 2023
Software Intern London, UK
 - Developed **production-ready code** to continuously monitor the uptime of the news processing system.
 - Designed and implemented **price charts with Exponential Moving Average (EMA) and Linear Regression indicators** to support trading decisions.

PROJECTS

- **MSc Dissertation – Market Liquidity in Traditional Assets vs Cryptocurrencies** June 2025 - September 2025
Tools: Python, Pandas, Statistical Testing, Binance API, Bloomberg Data
 - Analyzed execution quality across BTC (Binance) and SPY (Bloomberg) using **bid-ask spread, slippage simulation**, and the **Amihud Illiquidity Ratio**.
 - Normalized metrics across overlapping trading hours and validated results using **Welch's t-tests** ($p < 0.001$ for all metrics).
 - Found crypto execution had **43x more slippage** and **52x higher price impact**, highlighting liquidity fragmentation and institutional scalability risks in BTC markets.
- **FinBERT Sentiment Analysis for Cryptocurrency Markets** October 2025
Tools: Python, HuggingFace, FinBERT, Pandas
 - Experimented with **FinBERT**, a finance-domain BERT model, to classify news and social media sentiment related to major cryptocurrencies (BTC, ETH).
- **Binance L2 Order Book Logger - Python** August 2025 
Tools: Python, AsyncIO, WebSockets, Pandas, Parquet, Azure VM
 - Built a high-frequency data pipeline to **capture Binance L2 order book depth** at 1-second intervals and store in CSV formats, enabling analysis of market microstructure
 - Deployed the system on an Azure Linux VM with **automated daily logging**, simulating production-grade data engineering workflows.

SKILLS

- **Programming Languages:** Python, C++, Java, C#
- **Database Systems:** MongoDB, SQL
- **Data Science & Machine Learning:** Pandas, NumPy, Scikit-Learn
- **Financial Computing:** Stochastic Calculus, Monte Carlo Simulations
- **Other Tools & Technologies:** Data Structures & Algorithms, Asynchronous Programming, Web Scraping

ADDITIONAL INFORMATION

Languages: English (Native), Mandarin (Fluent), Cantonese (Fluent)
Interests: Algorithmic Trading, Machine Learning, Chess, Poker & Badminton