



Dingcheng Zhao, Andy

Address: R.C.Lee Hall, Sassion Rd.
Phone: (852) 53948587
Email: shredry1@gmail.com / sh0redry@connect.hku.hk
Website: <https://sh0redry.github.io/>

SUMMARY

As a Computer Science student at the University of Hong Kong with a dual focus in Computer Science and Finance, I hold a **3.7/4.3 GPA** and have been recognized on the **Dean's Honors List**. With strong interdisciplinary expertise in machine learning, data science, algorithm optimization, and financial applications, I am focused on delivering tech-driven solutions in **FinTech and quantitative trading**. I possess a solid academic foundation in computer science and finance, complemented by strong mathematical and analytical thinking. Proficient in **Python, C/C++**, and engineering tools including **Git and Docker**, I have practical experience in full-stack development, machine learning frameworks (**scikit-learn**), Kaggle competitions, and **Web3.0/blockchain** technologies, with the ability to independently manage data processing, model development, and quantitative strategy implementation. My professional experience includes an internship at CITIC Securities, where I gained exposure to financial markets and asset allocation, alongside leadership in student organizations that strengthened my organizational, collaborative, and communication skills. I have also led the development of a **Web3.0 quantitative trading bot**, demonstrating strong engineering and problem-solving capabilities. A highly motivated and fast learner, I combine technical rigor with financial insights and am eager to contribute and grow in roles related to **machine learning, quantitative trading, and data science**.

INTERNSHIP & CAMPUS EXPERIENCE

Financial Intern, Citic securities Jun 2025 - Jul 2025

- Systematically studied fundamental financial products and their operating fundamentals.
- Undertook hands-on practice in basic tasks such as stock management, asset allocation, and wealth management.
- Paid a visit to the company's headquarters in Beijing to gain an understanding of the organizational structure and primary functions of departments within the securities industry.
- Visited a range of public and private fund companies, engaging in exchanges and learning activities with fund managers.

Internal Secretary, CSSAUD Oct 2024 - Oct 2025

- Supported the internal affairs department of the 23rd Executive Committee of CSSAUD (Chinese Scholar and Student Association Undergraduate Department), responsible for planning and organizing large-scale student events.
- Planned and hosted events including the 2025 New Student City Meetup, Buddy Program, and Exchange Sharing Sessions, with total participation reaching nearly 3,000 attendees. Additionally, participated in over ten student organization activities and held key roles in these initiatives.

EDUCATION & STUDY

Bachelor of Engineering in Computer Science

University of Hong Kong

Sep 2024 - May 2028

- Focus on Financial Computing; Second Major in Finance
- Dean's Honors List, 2024–2025 Academic Year
- CGPA 3.7/4.3
- **Selected Courses:** Introductory microeconomics(A+), Introductory microeconomics(A+), Linear algebra, probability and statistics(A+), Calculus and ordinary differential equations(A), Discrete mathematics(A+), Analysis of economic data(A+), Introduction to machine learning, Introduction to data structures and algorithms, Modern Technologies on World Wide Web, Distributed ledger and blockchain, Object-Oriented Programming and Java.

PKUSSI Visiting Program

Peking University

Jul 2025

WAY Winter Visiting Program

Yonsei University

Dec 2025 - Jan 2026

HKUWW Exchange Program - Exchange student

National University of Singapore

Jan 2027 - Jun 2027

PROJECT

Web3.0 Quantitative Trading Bot – HackerU Trading

Lead Strategy Developer & Feature Engineering

- Developed automated data fetching via APIs and constructed machine learning features driven by order flow. Designed feature engineering modules for high/mid-frequency quantitative strategies, including order flow imbalance, net active buy rolling accumulation, and volume intensity. Applied rolling window alignment and future data isolation mechanisms. Integrated institutional-grade advanced factors (e.g., VWAP deviation, order flow acceleration, return Z-score) to enhance adaptability across market regimes. Built a dual-model ensemble strategy using LightGBM and XGBoost with a multi-layer trading funnel and dynamic position management, including sector constraints, BTC trend filtering, RSI overbought filter, ATR volatility threshold, edge-based ranking, consecutive loss cooldown, and gap handling. Implemented ATR-based adaptive stop-loss/take-profit and max holding period forced liquidation. Achieved up to 1% ROI in 10-day backtests.

Trading Visualization Platform

Personal Project (Ongoing)

- Built a full machine learning evaluation pipeline covering data cleaning, feature construction, signal generation, and multi-model training and comparison. Supports strict chronological splitting. Implemented automatic generation of classical price-volume features and an alpha signal generator with chained calls for custom factor addition. Developed QuantModelEvaluator for batch evaluation of sklearn-style models with unified output of performance metrics and sortable comparison tables. Visualized model training and selection.

C++ Game Development Project

Lead Developer (Course Project)

- Designed and implemented the core combat module of a survivor survival game, including player controls, multi-level weapon system, dynamic zombie generation and movement, collision detection, and UI rendering. Built a console-based real-time game loop with frame rate control and countdown using std::chrono. Supported non-blocking keyboard input for smooth interactive experience.

ADDITIONAL INFORMATION

- **Technical Skills:**
 - programming languages: Python, C/C++, Java. Familiar with Linux systems , Bash Shell scripting.
 - front-end technologies (HTML, CSS, JavaScript).
 - AI-assisted programming tools: VS Code and Cursor , to enhance development efficiency.
 - Basic proficiency in machine learning programming and algorithm design. Skilled in data analysis and statistical processing using SQL, NumPy, Pandas, and Matplotlib; scikit-learn; Kaggle experience.
 - Softwares: Git, Conda, Docker, WSL 2
 - Knowledge of distributed ledger and blockchain technologies; experienced in Solidity programming.
 - Finance: Second major in Finance; foundational knowledge of economics, financial markets, and financial products.
- **Languages:** English, Mandarin, Basic Cantonese.
- **Certifications:** IELTS (7.0).