



HE YUECHENG

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🌐 github.com/Reed2006

Python

C++

Java

Matlab

🎓 EDUCATION

Fudan University (FDU), Shanghai, China

2024 – Present

Bachelor of Science in Dual Degree Program: Mathematical Economics and Artificial Intelligence.

📁 AI PROJECTS & RESEARCH EXPERIENCE

Quantitative Finance: CNN-based Price Trend Prediction

Oct. 2025 – Present

Project Lead GitHub: reed2006/-re-imaging-the-price-trend

- **Core Work:** Reproduced the landmark paper (*Re-)Imag(in)ing Price Trends*, utilizing Computer Vision to learn predictive patterns from stock OHLC images instead of traditional manual factors.
- **Algorithm & Architecture:** Implemented a **TradingCNN** (3 ConvBlocks + FC) using **PyTorch** to classify future return directions; processed US (CRSP) and China (CSMAR) market data into standardized 64×60 pixel images.
- **Performance & Backtesting:** Achieved a prediction accuracy of **58.9%** on the China A-share market, significantly outperforming traditional momentum/reversal signals; validated strategies through decile portfolio backtesting with a high H–L spread.

Alympics: Platform Dual-Mode Game Simulation

Nov. 2025 – Present

Core Developer GitHub: reed2006/alympics-dual-model-game

- **Core Work:** Developed a multi-agent simulation playground based on the **Alympics** framework to research interaction structures between digital platforms and innovative sellers.
- **System Design:** Engineered a complex game logic involving mode selection, commission setting, and innovation choice; integrated **DeepSeek API** to empower agents with strategic reasoning capabilities.
- **Policy Analysis:** Simulated various regulatory scenarios (e.g., *ban_self_preferencing*) and visualized the impact on platform profits and seller welfare using **Matplotlib** and automated experiment pipelines.

AI for Social Science Research

May. 2025 – Present

Research Assistant Tutor: Jeziorski, Associate Professor, UC Berkeley

- **Field:** Natural Language Processing, Data Engineering.
- **Core Work:** Developed web scraping scripts to automate the collection and preprocessing of product data from Amazon.
- **Highlight:** Engineered a feature extraction pipeline using Large Language Models (LLMs) for advanced textual analysis and semantic encoding.

Economics Research

2024 – Present

Research Assistant Tutor: Xian XU, Professor, Fudan University

- **Field:** Data Management.
- **Core Work:** Conducted data organization, cleaning, and validation for the Fudan University Natural Disaster Database over a three-month period.

Research Collaborator Xiyuan Program (with Boyang Hu)

- **Field:** Econometrics, Corporate Finance.
- **Core Work:** Investigated the asymmetric effects of corporate ownership reform on firm performance.
- **Highlight:** Mastered practical data analysis and retrieval techniques using the Wind financial terminal and applied fundamental econometric models to test research hypotheses.

Competition Experience

Jan. 2025 – Feb.2025

Global AI Security Challenge (Top 10)

- **Track:** Image Interactive Authentication - Generation Track.
- **Contribution:** Independently developed a solution for generating highly realistic images to challenge anti-counterfeiting systems, achieving a top-10 finish.
- **Technology:** Utilized diffusion models, multimodal large models, and DeepFake technology for image generation.

American College Mathematical Modeling Competition & Chinese College Mathematical Modeling Competition

- Served as Programmer, developing a predictive model for cybercrime trends using neural networks.
- Managed data preprocessing and feature engineering with Python to prepare the dataset for modeling.
- Respectively win Honor price and the third price.

Working Experience

June. 2025 – Sep. 2025

Intern, Macroeconomic Research CITIC Securities

- Co-authored sections of the macroeconomic monthly analysis report distributed to institutional clients.
- Conducted a comprehensive literature review on stock index futures prediction models.
- Developed a model for RMB swap pricing and conducted policy analysis on pension reform measures.

Social Practice Experience

Jan. 2025

Volunteer Teacher & Research Lead Cenxi Middle School, Guangxi

- Led a research project on the "Labor Drain Dilemma in County-Level Towns," analyzing the causes and consequences of talent outflow.
- Authored a research paper that won First Prize for its insightful analysis and policy recommendations.
- Taught and mentored students as a volunteer teacher, developing and delivering original course materials.

Organizational Experience

Sep. 2024 – Present

Administrator Student Union of Fudan University, Academic Culture Department

- Co-ordinated and organized academic and cultural exchange events with multiple partner universities.
- Acted as the primary liaison between the Student Union and external academic institutions.

♡ HONORS & SKILLS

National Scholarship & Yanbao Scholarship & Cyrus Tang Scholarship for Moral Education 2024-2025

Academic Rank: 1st in School of Economics, GPA: 3.98/4.0

Jul. 2025

Language Exams: Fudan English Test (FET): A; CET-4: 639; CET-6: 580

2024

Shuping Scholarship

2020-Present

Technical Skills: Proficient in Python, C++, Java, and MATLAB

Present

Core Courses: Advanced Mathematics (A), Linear Algebra, Probability Theory, Microeconomics, Macroeconomics, Convex Optimization, Data Structures, Computer Systems Fundamentals, Foundations of AI Programming, Program Design

Present

📌 ADDITIONAL INFORMATION

- **GitHub:** github.com/Reed2006
- **Languages:** Mandarin (Native), English (Fluent)
- **Debating:** Represented Fudan University in the Shanghai University Students Finance Cup Debate Competition.