



# Qingshan Hou

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## 🎓 Education

### Tongji University

Sep.2022 – Jun.2026

Computer Science and Technology Undergraduate

Shanghai, China

- GPA: 4.44/5.0 | 3.88/4.0( Evaluated by World Education Services WES )
- Coursework: Linear Algebra · Assembly Language Programming · Software Engineering · Artificial Intelligence · Data Structures · Algorithms · Object-Oriented Programming · Operating Systems · Principles of Computer Organization · Computer Networks
- Class Monitor: Class of 2022, Computer Science and Technology 2nd Cohort

### National University of Singapore

Aug.2025 – Dec.2025

Dept of Computer Science Exchange Student

Singapore

Doing course work and AI for Science research in [Blue Whale Lab](#)

## 💼 Internship

### Hundsun Technologies Inc.

Jul.2024 – Aug.2024

FinTech Intern

Hangzhou, China

- Led a team of 6 members as product manager to design and develop a conceptual fund trading system.
- Gained hands-on experience in financial technology, including subscription, redemption, and clearing processes, as well as full-stack development using Vue.js for the front-end, Spring Boot for the back-end, and MySQL for database management.
- Certified Junior FinTech Engineer, Hundsun Technologies Inc. (Awarded for outstanding performance in financial technology project development).
- Recognized with the "Best Quality Award" for leading the development of the fund trading system.

### Heywhale Technology Co., Ltd.

Jul. 2025 – Sep. 2025

Research Intern

Shanghai, China

- Participated in the “Large Model + X” Summer Camp focused on artificial intelligence and large-scale model development.
- Completed a structured curriculum covering Python, Numpy, Pandas, machine learning, deep learning, and NLP fundamentals.

- Conducted applied research and hands-on experiments in LoRA fine-tuning, RAG, and model deployment on real datasets.
- Gained practical experience in end-to-end AI model optimization, evaluation, and deployment under industry supervision.

## ✍ Research Experience

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**Research Assistant: Multi-Agent Spatio-temporal Coordination** Feb.2025 – Jul.2025

Embodied AI    Multi-Agent Systems

Tongji University

- Conducting research on multi-agent spatiotemporal coordination problems in the context of embodied intelligence, focusing on collaborative perception, task planning, and motion synchronization.
- Exploring strategies for communication and policy learning among agents to enable robust cooperation for perception and prediction.
- The project also aims to enhance the generalization capability of embodied agents across diverse domestic scenarios(such as autonomous driving).

**Multi-Objective Optimization of GFlowNet**

Feb.2025 – Jul.2025

Flow Network    Game Theory

Tongji University

- Conducting research on extending the original GFlowNet framework from single-objective to multi-objective optimization, integrating objectives such as reward, cost, and diversity.
- Designed a new objective formulation incorporating additional evaluation metrics, and applied evolutionary game theory concepts to model the trade-offs and dynamic policy updates.
- Implemented and validated the extended model on molecular datasets, demonstrating improved sample cost and reward performance over the original baseline.

## 🔧 Project Experience

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**Intelligent Car Based Online Calibration System**

Apr.2024 – Jun.2024

Computer Vision    Internet of Vehicles

Tongji University

- Developed an online calibration system using an intelligent car, replacing traditional static object-based calibration. This improved efficiency and reduced labor requirements.
- Utilized YOLO v9 for computer vision-based calibration and built a basic model of the intelligent car for autonomous movement and calibration.
- Enhanced calibration efficiency by automating the process with a self-moving car and reduced manual intervention and improved system accuracy.
- Won the Silver Medal at the 2024 China International College Students Innovation Competition (Tongji University Internal Competition).

# ExCourt - Badminton Court Exchange System

Aug.2024 – Jun.2025

Software Engineering Mini App

Tongji Universiy

- Designed and developed a WeChat Mini Program to facilitate court exchange and team formation for badminton players.
- Implemented key features such as team formation requests, court exchanging, and a chat module for user interaction.
- Improved convenience for school badminton players and enhanced their overall experience

## 🏆 Honors and Awards

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- Tongji University Undergraduate Excellence Scholarship [🔗](#) Nov.2023
- Certified Junior FinTech Engineer, Hundsun Technologies Inc. [🔗](#) Aug.2024
- Excellence Award: 2025 Corpus & Data Intelligence Creative Competition (Embodied Intelligence Track) [🔗](#) Jul.2025
- First Prize: 35th Shanghai Youth Science&Technology Innovation Competition [🔗](#) Apr.2020
- « Large Model + X General Education Summer Camp » Artificial Intelligence and Large Model Development [🔗](#) Sep.2021
- Silver Award: 2024 China International College Students Innovation Competition (Tongji University Internal Competition) [🔗](#) Jun.2024
- President,Jiading Campus Basketball Association Jun.2024 - Jun.2025

## ⚙️ Skills

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- Programming Language: C++ Python JavaScript
- English Proficiency
  - IELTS: Overall band 7.5 ( all sections are equal or above 7.0 )
  - CET4: 634
  - CET6: 584

## ℹ️ Others

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- Activities:
  - UFI Filters Group/Sofima Automotive Filter Asia-Pacific Headquarters Plant Tour [🔗](#)
  - Performing a cappella at the Earth Hour event. [🔗](#)
  - Mercedes-Benz 2025 Shanghai International Auto Show Youth Talent Day [🔗](#)
- Interests:
  - Certified National Level-3 Basketball Referee
  - Music band lead singer [🔗](#)
  - A cappella Tenor