

# XIYUAN YANG

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Github: [xiyuanyang-code](https://github.com/xiyuanyang-code)

Online Resume: <https://xiyuanyang-code.github.io/resume/>

## EDUCATION

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### Shanghai Jiao Tong University

Shanghai, China

Bachelor's degree, School of artificial intelligence

09/2024 - present (Still freshman year)

GPA: 4.14/4.3 (**Ranked 1 out of 62**)

Score: 94.0/100

Scholarships: Zhiyuan Honor Scholarships (first 5%)

- Comprehensive Programming Practice: 100/100
- Linear Algebra (Honor): 98/100
- Fundamental of Programming (Honor): 98/100
- College Physics I (Honor): 96/100
- Introduction to Artificial Intelligence: 95/100
- Mathematical Analysis II (Honor): 95/100

17 courses achieved A/A+, including **all major-related courses**, with **9** courses earning A+.

### High school affiliated to Nanjing Normal University

Nanjing, China

09/2021 - 06/2024

## TECHNICAL PROJECTS

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### AlphaBuild: AlphaBuild: Generating Formulaic Alphas on a Wider Range of Stock Data

Leading AlphaBuild as the final project of course **AI1803**, an RL-based methodology using PPO to optimize factor mining based on [AlphaGen](#), achieving superior backtest performance by leveraging smaller, parallel factor pools and **PCA** for final factor selection.

### Data\_Structure\_Awesome (C++)

<https://github.com/xiyuanyang-code/Data-Structure-Awesome>

C++ implementations of various data structures and classic algorithms. As the final project for **CS0501H** (with ACM Honor Class students), I implemented several STL containers, including `std::vector`, `std::list`, `std::priority_queue`, `std::linked_hashmap` and `std::map`.

### Vosk-Based Voice Translation (Python)

[https://github.com/xiyuanyang-code/voice\\_translation](https://github.com/xiyuanyang-code/voice_translation)

Developed a Vosk-based Chinese-English Bilingual Speech Recognition Application that implements real-time speech-to-text functionality, accurately transcribing spoken language across both Chinese and English in a dynamic, real-time environment.

### My Technical Blog (HTML)

<https://xiyuanyang-code.github.io>

Maintainer of [my technical blog](#). I regularly publish technical content focusing on computer science and AI. To [date](#), I have authored **over 100 articles with a cumulative word count exceeding 340,000 words**.

Active GitHub committer ([xiyuanyang-code](#)) with 20+ open-source repositories. I build and open-source user-friendly tools I personally find useful, driven by a passion for engineering and open source.

SKILLS

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**Programming Languages:** Python (Proficient), C++ (Proficient), C, HTML, CSS, JavaScript, Rust.  
**Tools:** Git, LaTeX, Shell, Docker.  
**Python Modules:** Torch (Proficient), Numpy, Pandas, Matplotlib.  
**ML & DL:** Familiar with Deep Learning architectures and model training techniques.  
**Languages:** Chinese (native), English (fluent, CET-4: 611).

RESEARCH

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My research interests lie in **Multi-Agent Systems** and **LLM Reasoning**.

AWARDS AND CERTIFICATIONS

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<b>Zhiyuan Honor Scholarships</b> (first 5%)	2024
<b>Honorable Mention in MCM</b>	2025
Honorable Mention, COMAP Mathematical Contest in Modeling / Interdisciplinary Contest in Modeling (MCM/ICM).	
2025-C: Models for Olympic Medal Tables.	