Xiyuan Yang

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GitHub: https://github.com/xiyuanyang-code
Resume: https://xiyuanyang-code.github.io/resume/

EDUCATION

Shanghai Jiao Tong University   Shanghai, China

Bachelor's degree, School of artificial intelligence   09/2024 - present

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

17 courses achieved A/A+, with **9** of them earning A+. This includes **all major-related courses**.

High school affiliated to Nanjing Normal University   Nanjing, China

                                                                                         09/2021 - 06/2024

TECHNICAL PROJECTS

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 process 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`.

My Technical Blog
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 120 articles with a cumulative word count exceeding 400,000 words**.
Active GitHub committer (xiyuanyang-code) with 30+ open-source repositories. I build and open-source user-friendly tools I personally find useful (See Tool Zoo), driven by a passion for engineering and open source.

SKILLS

Programming Languages: Python (Proficient), C++ (Proficient), Rust, JavaScript, HTML, CSS.
Tools: Git, LaTeX, Shell, Docker.
Python Modules: Torch (Proficient), Numpy, Pandas, Matplotlib, BeautifulSoup.
ML & DL: Familiar with Deep Learning architectures and model training techniques.
Languages: Chinese (native), English (CET-6: 584).

Research

My research interests lie in **Agentic AI** and **Multi-Agent Systems**.

AppCopilot: Toward General, Accurate, Long-Horizon, and Efficient Mobile Agent
https://arxiv.org/abs/2509.02444
Developed **AppCopilot**, a multimodal, multi-agent on-device assistant that addresses core challenges in the mobile-agent landscape. AppCopilot significantly improves generalization, on-screen interaction accuracy, and long-horizon task completion, while also optimizing performance and efficiency on resource-constrained mobile devices.

Awards and Certifications

Zhiyuan Honor Scholarships (first 5%) 2024

Honorable Mention in MCM 2025

Honorable Mention, COMAP Mathematical Contest in Modeling / Interdisciplinary Contest in Modeling (MCM/ICM).
2025-C: Models for Olympic Medal Tables.