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: National Scholarship (first 3%), 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**.

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`.

ProbeCode: AI coding Agent with MCP Framework
https://github.com/xiyuanyang-code/ProbeCode
ProbeCode: AI coding agent integrating static code inspection with a ReAct framework to understand and memorize long-context code. It operates and comprehends code at the project level and tackles the core challenge of long and complex codebases exceeding standard LLM context windows.

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.

Research

My research interests lie in **Agentic AI** and **Multi-Agent Systems**
Undergraduate researcher in **MAGIC**(**M**ulti-**A**gent **G**overnance & **I**ntelligence **C**rew), supervised by Siheng Chen.

AppCopilot: Toward General, Accurate, Long-Horizon, and Efficient Mobile Agent
https://arxiv.org/abs/2509.02444
https://github.com/OpenBMB/AppCopilot (**600+** stars.)
Developed **AppCopilot**, a multi-modal, 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.

InfoMosaic-Bench: Evaluating Multi-Source Information Seeking in Tool-Augmented Agents
https://arxiv.org/abs/2510.02271
https://github.com/DorothyDUUU/Info-Mosaic (**100+** stars.)
Pioneered **InfoMosaic-Bench**, the first benchmark dedicated to multi-source information seeking in LLM agents, demonstrating the critical need to integrate general-purpose web search with thousands of domain-specific tools via **MCP** (Model Context Protocol). Experiments revealed that web information alone is insufficient (GPT-5 Acc: 38.2%) for information seeking due to incorrect tool usage/selection.
Under Review for **ICLR 2026**.

Skills

Programming Languages: Python (Proficient), C++ (Proficient), Rust, JavaScript, HTML, CSS.
Tools: Git, LaTeX, Shell, Docker.
Python Modules: Torch (Proficient), Numpy, Pandas, Matplotlib, BeautifulSoup, FastMCP, etc.
ML & DL: Familiar with Deep Learning architectures and model training techniques.
LLM & Agents: Familiar with core architectures for Large Language Models (LLMs) and multi-agent frameworks.
Languages: Chinese (native), English (CET-6: 584).

Awards and Certifications

National Scholarship (first 3%) 2025

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.