

XIYUAN YANG

yangxiyuan@sjtu.edu.cn ◇ Shanghai Jiao Tong University ◇ Shanghai, China

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**(Multi-Agent Governance & Intelligence Crew), 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

Challenge Cup Competition for "Unveiling the List and Appointing the Best"	2025
Defender Research Proposal for a General-Purpose AI Assistant Technology Based on Multi-Agent Architecture Competition.	
National Scholarship (first 3%)	2025
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.	
Zhiyuan Honor Scholarships (first 5%)	2024