Xiyuan Yang

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

Education

Shanghai Jiao Tong University   Shanghai, China

Bachelor's degree, School of artificial intelligence   09/2024 - present (Still freshman year)

GPA: 4.1/4.3 **(Ranked 1 out of 63)**

Scholarships: Zhiyuan Honor Scholarships

Major courses:

1. Linear Algebra (Honor): A+ (98)

2. Fundamental of Programming (Honor): A+ (98)

3. Introduction to Artificial Intelligence: A+ (95)

High school affiliated to Nanjing Normal University   Nanjing, China
                                                                                  09/2021 - 06/2024

Skills

Programming Languages: Python (Proficient), C++ (Proficient), C, HTML, 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).

Technical Projects

Data_Structure_Awesome (C++)
https://github.com/xiyuanyang-code/Data_structure
The C++ implementation of various data structures and classic algorithms. As the final project for **CS0501H** (with ACM Honors Class students), I implemented several STL containers, including std::vector, std::list, std::priority_queue, std::linked_hashmap, and std::map, with the total repository code exceeding 12,000 lines.

RAG Blog Content Retrieval (Python)
https://github.com/xiyuanyang-code/RAG_blog_content_retrieval
Using RAG (Retrieval-Augmented Generation), I implemented a system to crawl and retrieve content from specific blogs, along with a simple web UI frontend, enabling LLMs to efficiently search and access the target blog's content.

Camel multi-agent English Essay Revision helper (Python)
https://github.com/xiyuanyang-code/Camel-Agent-English-Essay-Revision
As an enthusiast of multi-agent systems, I implemented a collaborative blog post revision system using Camel-AI's multi-agent framework. In practical use, this system outperforms simple prompt engineering with a single LLM.

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.

I am always an active committer on GitHub with more than 20 open-sourced repositories. I'm passionate about engineering projects and a strong advocate for open-source philosophy.

RESEARCH

My research interests lie in **Multi-Agent Systems** and **LLM Reasoning**.
Undergraduate Research Assistant, MediaBrain, SJTU, supervised by Siheng Chen.

EXTRACURRICULAR

Several landmark courses learnt after class, including **Introduction to Algorithms** (MIT 6.006), **Fundamentals of Machine Learning**, **Large Language Model Agents** (Berkeley, CS294/194-196), etc.
Through these, I've developed foundational knowledge in traditional machine learning, deep neural networks, and agent architectures.

AWARDS AND CERTIFICATIONS

Zhiyuan Honor Scholarships   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.