Siyuan Liu

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Education

Nanjing University, *Bachelor of Science in Computer Science and Technology*   Sept. 2022 – Present

- **GPA:** 4.59/5 (91.8/100), **Ranking:** 5/184 (Top 2.7%)
- **Main Courses:**
  - **Math:** Calculus I&II (92), Linear Algebra (85), Probability Theory and Mathematical Statistics (100), Numerical Method (98)
  - **CS:** Advanced Programming (98), Introduction to Computer Systems (96), Elements of Cryptography (95), Big Data Processing (95), Principles and Techniques of Compilers (92), Visual Representation and Recognition (92)

Experience

Student Research Assistant, The University of Hong Kong   July 2025 - Nov 2025

Advised by Prof. Kai Han

- Nominated to participate in the internship program of HKU School of Computing and Data Science (about 50 undergraduates worldwide), working on a project about Composed Image Retrieval.

Research Intern, Nanjing University   Feb. 2025 - May 2025

Advised by Prof. Yinghuan Shi

- Designed and implemented a novel framework leveraging LoRA, orthogonal loss, and cross-modal attention to enhance generalization and specialization in video action recognition tasks.

Projects

C-like Language Compiler   Sept. 2024 - Dec. 2024

- Developed a small-scale C-like language compiler that translates C-like source code into MIPS assembly code.
- Completed as part of the course *Principles and Techniques of Compilers*.

Survivor-like Game   Mar. 2023 - June. 2023

- Designed and developed a survivor-like game from scratch using C++ and Qt.
- Completed as part of the course *Advanced Programming*.

Honors and Awards (Selected)

- **National Scholarship, twice**   2025, 2023
- **Guo Xie Birong Scholarship Special Award**   2024
- **Mobile Light Digital Intelligence Innovation Scholarship**   2024
- **Outstanding Student of Nanjing University, Model**   2024
- **Outstanding Student Leader of Nanjing University, Model**   2024

Technical Skills

- Programming and Framework: Python, C/C++, SQL, PyTorch
- Development Tools: Git, Bash, Markdown, LaTeX
- Language: English (CET-6: 608)

Service

- Teaching Assistant of Discrete Mathematics   Feb. 2025 - June 2025
- Executive President of the Student Union, School of Computer Science   Sept. 2024 - Aug. 2025