YI GU

"Another day is a gift."

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○ Gy0912

EDUCATION

09/2022–06/2026 (expected)
Bachelor of Computer Science and Technology

ShanghaiTech University
GPA: 3.29 Professional GPA: 3.53

PROJECTS

PintOS

Operating System Development

▢ Stanford CS

- Implemented **Priority Scheduling**, **System Calls**, **Memory Mapped Files**, **Indexed & Extensible Files**, and **Subdirectories**.
- Passed almost all local tests and most TA additional tests. **Final grade: A+ (92.4335/100).**
- Gained hands-on experience in operating system design, including process scheduling, memory management, and file system implementation.

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Compiler

Compiler Construction

▢ UPenn CIS3410

- Developed the latter half of the compiler codebase and test cases, covering **lexical analysis, syntax analysis, and code optimization**.
- Passed all local tests and most TA additional tests. **Final grade: 86.79/100.**
- Strengthened understanding of compiler design, including parsing techniques, intermediate representations, and optimization strategies.

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Artificial Intelligence

Pacman

▢ UC Berkeley CS

- **Personal work**: Most assignments passed both local and online tests.
- **Team project**: Grade undisclosed, but covered **search algorithms, reinforcement learning, and machine learning**.
- Explored fundamental AI techniques, including heuristic search, Markov decision processes, and deep learning principles.

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These are some of the projects I have finished. If you want more detailed info about my projects, please visit my website.

SOCIAL PRACTICE

Rural Survey

Rural Revitalization, Healthcare and Poverty Alleviation, Distinctive Industries

● Enshi, Hubei, 07/2023

- Conducted field research on healthcare accessibility and economic conditions in remote villages.
- Villagers and local hospitals were interviewed to assess the feasibility of telemedicine.
- Analyzed income sources and proposed strategies for rural development.

Industry Visit

Artificial Intelligent and Autonomous Driving

 Pony.ai, IM Motors, NIO, ShangHai, 08/2024

- Visited some leading companies to study autonomous driving technologies.
- Explored technical implementations, business models, and future trends in the industry.

STRENGTHS

Technical Skills:
- **Proficient**: C++, C, Python
- **Familiar**: MATLAB, OCaml

Possible Future Research and Career Directions:
- ML, NLP, OS, Algorithm, Game development

Languages:
- **English**: TOEFL(90)
- **Chinese**: Mandarin

Updated on: 03/2025