SITE FAN

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Education

Southern University of Science and Technology	**Sep. 2021 − Expected June 2025**
B.Eng. of Computer Science and Technology	GPA: 3.92/4.00, Major Ranking: 5/195
Honored Degree, Turing Class	Class Ranking: 1/29

Research Interest

Distributed Systems, High Performance Computing, Networks, Machine Learning

Researches and Projects

GPU-based Parallel Subgraph Counting and Listing over Evolving Graphs　　　　　**Aug. 2024 - Present**
- Implement subgraph counting and listing algorithms for dynamic graphs on GPU, leveraging GPMA/LPMA.
- Improve performance by optimizing parallel execution. Undergraduate research project advised by Prof. Zhuozhao Li.

Research Intern at OrderLab, University of Michigan　　　　　**Mar. 2024 - Present**
- Developing LiteSys, a fault-tolerant distributed system to enhance reliability and availability towards metastability.
- Ongoing research project advised by Prof. Ryan Huang, cooperating with OrderLab.

Stack Unwinding Implementation for Rust-based OS　　　　　**Sep. 2023 - Jan. 2024**
- https://github.com/asterinas/asterinas
- Designed and implemented stack unwinding using the DWARF standard for Rust-based OS Asterinas. Facilitated kernel debugging capabilities, improving system diagnostics.
- Undergraduate research internship and group project advised by Prof. YinQian Zhang, cooperating with Asterinas.

SPL Compiler　　　　　**Sep. 2023 - Jan. 2024**
- https://github.com/GuTaoZi/SPL_Compiler
- A C-based compiling tool including lexical, syntax, semantic analyzer and intermediate code generator to compile a custom C-like language into MIPS32 Code.
- Semester group project of the Compilers course.

GAS File System　　　　　**May 2023 - June 2023**
- https://github.com/GuTaoZi/GAS_Filesystem
- A custom Linux file system implemented as a kernel module, supporting basic file operations and VFS interfaces.
- Inspired by samplefs, group project of Operating System(H) cooperating with two students from Turing Class(100/100).

Feather CPU: Single-Cycle RV32I CPU Design on Minisys　　　　　**Apr. 2023 - June 2023**
- https://github.com/GuTaoZi/FeatherCPU
- A lightweight CPU core design running on Minisys, supporting basic RV32I instructions and several IO devices.
- Implemented with reference to *Computer Organization and Design:The Hardware/Software Interface*. Group project of Computer Architecture(H) in collaboration with another student from Turing Class(130/100).

Languages and Skills

Languages:　Chinese Mandarin (native), English (TOEFL 103, R30—L29—S22—W22)

Programming Languages: C/Cpp, Python, Verilog, Rust, Java, JavaScript, HTML, MIPS/RISC-V Assembly, SQL

Relevant Coursework

Course Name	Score	Letter Grade
Operating Systems(H)	100	A+
Computer Organization and Architecture(H)	100	A+
Machine Learning(H)	99	A+
Data Structure and Algorithm Analysis (H)	96	A
Algorithm Design and Analysis (H)	95	A
Digital Logic(H)	94	A
Artificial Intelligence(H)	93	A
Principles of Database Systems (H)	92	A-
Computer Networks	90	A-

* The Courses with (H) are honorable courses for Turing Class.

Awards and Scholarships

First Prize for Outstanding Student Scholarship, SUSTech	**2024**
National Scholarship (9 out of 4000)	**2023**
Special Prize, School Motto *Truth* Series Scholarship, SUSTech (3 out of 4000)	**2023**
First Prize for Outstanding Student Scholarship, SUSTech	**2023**
Successful Participant Award, International Mathematical Contest In Modeling	**2022**
Provincial third Prize, Chinese Mathematical Contest in Modeling	**2022**
First Prize for Outstanding Student Scholarship, SUSTech	**2022**
Outstanding Freshman Scholarship, SUSTech	**2021**

Position of Resposibility

Teaching Assistant of Advanced Computer Program Design	**Sep. 2024 - Jan. 2025**
Teaching Assistant of C/C++ Program Design	**Sep. 2023 - Jan. 2024**
Monitor of 2021 Turing Class	**Aug. 2022 - Present**
Peer Mentor of Shude College	**May. 2022 - Present**