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Site Fan

Education

Southern University of Science and Technology (SUSTech) Shenzhen, China
Bachelor of Engineering in Computer Science and Technology 2021 - 2025

- GPA: 3.92/4.00, Rank: 5/195.
- Honored Degree, Turing Class of 2021, Rank: 1/29.

Publication

1. [Under submission to NSDI' 26] Yi Chen, **Site Fan**, Rishika Varma Kalidindi, Po-Yu Hou, Maizhe Zhang, Peng Huang. **LiteLib: Containing Failure Impact for Stateful Applications with Compact Replicas**. *23rd USENIX Symposium on Networked Systems Design and Implementation*, May. 2026.
2. Haibin Lai, Sicheng Zhou, **Site Fan**, Zhuozhao Li. **ParaCOSM: Parallel Framework for Accelerating Continuous Subgraph Matching** *54th International Conference on Parallel Processing*, Sep. 2025

Research

Research Intern at HPC Lab, SUSTech Shenzhen, China
Advised by **Prof. Zhuozhao Li** 2024/08-2025/04

- **Parallel Framework for Accelerating Continuous Subgraph Matching**
- Implemented subgraph counting and listing algorithms for dynamic graphs on GPU.
- Leveraging GPMA/LPMA as data structure for dynamic graph storage and update.

Research Intern at Order Lab, University of Michigan Ann Arbor, United States
Advised by **Prof. Ryan(Peng) Huang** 2024/03-2025/04

- **Achieving Cost-Effective Failure Containment with Lite Replica**
- Developed LiteSys, a framework for developing and managing lite versions of datacenter applications that provide a subset of services for failure containment.
- Achieved 79% request serving during failures with only 2% code size and 50× faster recovery, while maintaining low overhead.

Research Intern at Teecert Labs, SUSTech Shenzhen, China
Advised by **Prof. Yinqian Zhang**, Collaborate with Ant Group 2023/06-2024/01

- **Stack Unwinding for Asterinas: a secure, fast, and general-purpose OS kernel**
- Implemented Stack Unwinding mechanism for Asterinas, enabling exception handling and debug supporting.
- Asterinas can serve as a seamless replacement for Linux while enhancing memory safety and developer friendliness: github.com/asterinas/asterinas

Research Intern at EMI Group, SUSTech Shenzhen, China
Advised by **Prof. Ran Cheng** 2022/06-2022/09

- **EvoX: Distributed GPU-accelerated Framework of Scalable Evolutionary Computing**
- Implemented multi-object optimization algorithms NSGA3 and LMOCSO for EvoX.
- EvoX offers a comprehensive suite of 50+ Evolutionary Algorithms and a wide range of 100+ Benchmark Problems/Environments: github.com/EMI-Group/evox

Projects

SPL Compiler 2023/09 - 2024/01

A light-weight C-based compiler for a custom C-like language into MIPS32 Code.

- github.com/GuTaoZi/SPL_Compiler, project for Compilers (398/400)
- Implemented lexical, syntax, semantic analyzer and intermediate code generator from scratch using Bison and Flex.

GAS File System 2023/05 - 2023/06

A custom Linux file system implemented as a kernel module using C.

- github.com/GuTaoZi/GAS_Filesystem, project for Operating Systems (100/100).
- Supported basic file operations and VFS interfaces, inspired by *samplefs*.

Feather CPU 2023/04 - 2023/06

A light-weight single-cycle RISC-V CPU design on Minisys board for RV32I instruction set.

- github.com/GuTaoZi/FeatherCPU, project for Computer Architectures (130/100)
- Implemented with reference to *Computer Organization and Design:The Hardware/Software Interface*.

Activities

Teaching Assistant | Advanced Computer Program Design 2024/09 - 2025/01

- Responsible for lab sessions, assignment / project design.
- Introducing C, C++ and Rust programming languages, as well as their applications in system development and computing.

Outstanding Teaching Assistant | C/C++ Program Design 2023/09 - 2024/01

- Responsible for lab sessions, quiz / assignment / project design.
- Giving a good knowledge of C and C++, as well as a working practice of systems through lectures and programming tasks and projects.

Teaching Assistant | Advanced Database Summer Workshop 2023/07 - 2023/08

- Responsible for assisting Stéphane Faroult and translation in lab sessions.
- Covering the latest industrial techniques and hands-on lab experience in advanced database development.

President | 2021 Turing Class, Dept. CSE 2022/08 - Present

- Responsible organizing activities for Turing class, following-up research and coursework progress, assisting and communicating with faculties etc.

Outstanding Peer Mentor | Shude College, SUSTech 2022/05 - Present

- Responsible for advising undergraduates on major selection, academic advising, psychological assistance, and fundamental computer knowledge.

Awards and Honors

- **Top 10 Undergraduate Graduates**, SUSTech 2025
- **National Scholarship**, SUSTech (9 out of 4000) 2023
- **School Motto *Truth* Series Scholarship**, SUSTech (3 out of 4000) 2023
- **Top 10 Outstanding Volunteers**, SUSTech 2023
- **Outstanding Teaching Assistant**, SUSTech 2023
- **First Prize of Outstanding Student Scholarship**, SUSTech 2022,2023,2024

Skills

Languages: Chinese (Native), English (Advanced, TOEFL 110: R30/L30/S23/W27).

Programming: Advanced: C/C++, Python, Java; Familiar: Rust, CUDA; Basic knowledge: Golang, TypeScript. Language-agnostic and adaptable to research targets.

Development: Experienced in Git, Linux Kernel development, parallel programming interfaces and microservice infrastructures.

DevOps: Experienced in containerization, microservices deployment and maintenance, databases and Hadoop filesystem.