

SITE FAN

EDUCATION	Southern University of Science and Technology (SUSTech) <i>Bachelor of Engineering in Computer Science and Technology</i>	Shenzhen, China
	<ul style="list-style-type: none">• GPA: 3.90/4.00, Rank: 7/199.• Honored Degree, Turing Class of 2021, Rank: 1/29.	2021 - 2025
PUBLICATIONS	<ol style="list-style-type: none">1. Yi Chen, Site Fan, Rishika Varma Kalidindi, Po-Yu Hou, Maizhe Zhang, Peng Huang. LiteLib: Containing Failure Impact for Stateful Applications with Compact Replicas. <i>20th USENIX Symposium on Operating Systems Design and Implementation</i>, July 2026. [Submitted to OSDI'26]2. Haibin Lai, Sicheng Zhou, Site Fan, Zhuozhao Li. ParaCOSM: Parallel Framework for Accelerating Continuous Subgraph Matching. <i>54th International Conference on Parallel Processing (ICPP)</i>, Sep 2025. [Paper] [Presentation] [GitHub]	
RESEARCH	Research Intern at HPC Lab, SUSTech Advised by Prof. Zhuozhao Li	Shenzhen, China 2024/08–2025/04
	<ul style="list-style-type: none">• Developed ParaCOSM, a parallel framework that accelerates existing CSM algorithms on multi-core CPUs.• Designed inner-update parallelism for fine-grained task decomposition and balanced search on large query graphs.• Implemented a safe-update mechanism enabling concurrent update verification while preserving correctness.• Achieved 1.2×–30.2× speedups, up to 100× faster update handling, and higher success rates on large queries.	
	Research Intern at Order Lab, University of Michigan Advised by Prof. Ryan Huang	Ann Arbor, United States 2024/03–2024/08
	<ul style="list-style-type: none">• Designed and implemented mechanisms for compact replicas that preserve only critical state and core operations to maintain bounded service continuity during failures.• Built transparent state maintenance and failover support that enables seamless switching to compact replicas while logging updates for post-recovery replay.• Integrated into 5 production-scale datacenter applications; achieved 50× faster recovery, 50%+ request serving during failures, and prevented cascading/metastable failures with only 2% code size.	
	Research Intern at Teecert Labs, SUSTech Advised by Prof. Yinqian Zhang, in collaboration with Ant Group	Shenzhen, China 2023/06–2024/01
	<ul style="list-style-type: none">• Exception Handling and Stack Unwinding for Asterinas OS Kernel [GitHub]• Implemented kernel-level stack unwinding enabling structured exception handling and fault recovery.• Supported debugging and reliability improvements for Asterinas.	
	Research Intern at EMI Group, SUSTech Advised by Prof. Ran Cheng	Shenzhen, China 2022/06–2022/09
	<ul style="list-style-type: none">• EvoX: Distributed GPU-accelerated Framework for Scalable Evolutionary Computation [GitHub]• Implemented GPU-accelerated multi-objective evolutionary algorithms.• Improved scalability for 50+ algorithms and 100+ benchmark tasks with optimized GPU kernels.	

PROJECTS

Compiler Project — SPL Compiler [GitHub]	2023/09 – 2024/01
Implementation of an instructional compiler targeting the MIPS32 architecture.	
• Implemented a complete compilation toolchain—including lexing, parsing, semantic analysis, and IR generation—using Bison/Flex, producing structured MIPS32 assembly.	
Operating Systems Project — GAS File System [GitHub]	2023/05 – 2023/06
Design and implementation of a minimal Linux file system as a loadable kernel module.	
• Developed core VFS components including inode/dentry operations and file abstractions, providing an instructional platform for exploring Linux filesystem internals.	
Computer Architecture Project — Feather CPU [GitHub]	2023/04 – 2023/06
Hardware implementation of a single-cycle RISC-V (RV32I) CPU on FPGA (Minisys).	
• Designed datapath, control logic, and ISA execution pipeline following <i>Computer Organization and Design</i> , and validated correctness across RV32I workloads.	

ACTIVITIES

Teaching Assistant Advanced Computer Program Design	2024/09 – 2025/01
• Led lab sessions and contributed to assignment and project design.	
• Introduced C, C++, and Rust, with emphasis on their use in systems programming and high-performance computing.	
Teaching Assistant C/C++ Program Design	2023/09 – 2024/01
• Led lab sessions and designed quizzes, assignments, and programming projects.	
• Provided foundational training in C/C++ and practical systems programming experience.	
Teaching Assistant Advanced Database Summer Workshop	2023/07 – 2023/08
• Assisted instructor Stéphane Faroult and provided technical translation during lab sessions.	
• Supported hands-on training in modern industrial database techniques.	
President 2021 Turing Class, Dept. CSE	2022/08 – Present
• Organized academic and research activities; supported student progress; coordinated with faculty on class-wide affairs.	
Outstanding Peer Mentor Shude College, SUSTech	2022/05 – Present
• Advised undergraduates on major selection, academic planning, mental well-being, and foundational computing skills.	

AWARDS AND HONORS

• Top 10 Undergraduate Graduates, SUSTech	2025
• National Scholarship, SUSTech (9 out of 4000)	2023
• School Motto <i>Truth</i> 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, GRE 327: Q170/V157)

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.