

SITE FAN

EDUCATION	Southern University of Science and Technology (SUSTech) <i>Bachelor of Engineering in Computer Science and Technology</i> • GPA: 3.90/4.00, Rank: 7/199. • Honored Degree, Turing Class of 2021, Rank: 1/29.	Shenzhen, China 2021 - 2025
PUBLICATIONS	<ol style="list-style-type: none">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>23rd USENIX Symposium on Networked Systems Design and Implementation</i>, May 2026. [Submitted to NSDI'26]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 • 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 $1.2\times\text{--}30.2\times$ speedups , up to $100\times$ faster update handling, and higher success rates on large queries.	Shenzhen, China 2024/08–2025/04
	Research Intern at Order Lab, University of Michigan Advised by Prof. Ryan Huang • 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 $50\times$ faster recovery , $50\%+$ request serving during failures, and prevented cascading/metastable failures with only 2% code size.	Ann Arbor, United States 2024/03–2024/08
	Research Intern at Teecert Labs, SUSTech Advised by Prof. Yinqian Zhang , in collaboration with Ant Group • 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.	Shenzhen, China 2023/06–2024/01
	Research Intern at EMI Group, SUSTech Advised by Prof. Ran Cheng • 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.	Shenzhen, China 2022/06–2022/09

PROJECTS	Compiler Project — SPL Compiler [GitHub]	2023/09 – 2024/01
	Implementation of an instructional compiler targeting the MIPS32 architecture.	
	<ul style="list-style-type: none"> Implemented a complete compilation toolchain—including lexing, parsing, semantic analysis, and IR generation—using Bison/Flex, producing structured MIPS32 assembly. 	
ACTIVITIES	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.	
	<ul style="list-style-type: none"> 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).	
	<ul style="list-style-type: none"> Designed datapath, control logic, and ISA execution pipeline following <i>Computer Organization and Design</i>, and validated correctness across RV32I workloads. 	
	Teaching Assistant Advanced Computer Program Design	2024/09 – 2025/01
	<ul style="list-style-type: none"> 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
	<ul style="list-style-type: none"> 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
	<ul style="list-style-type: none"> Assisted instructor Stéphane Faroult and provided technical translation during lab sessions. Supported hands-on training in modern industrial database techniques. 	
AWARDS AND HONORS	President 2021 Turing Class, Dept. CSE	2022/08 – Present
	<ul style="list-style-type: none"> Organized academic and research activities; supported student progress; coordinated with faculty on class-wide affairs. 	
	Outstanding Peer Mentor Shude College, SUSTech	2022/05 – Present
	<ul style="list-style-type: none"> Advised undergraduates on major selection, academic planning, mental well-being, and foundational computing skills. 	
	• Top 10 Undergraduate Graduates, SUSTech	2025
	• National Scholarship, SUSTech (9 out of 4000)	2023
SKILLS	• 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
	Languages:	
	<ul style="list-style-type: none"> 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.	