

Education

University of Science and Technology of China	Sept. 2023 – Jun. 2026
M.Sc. in Computer Science & Technology, advised by Prof. Hao Zhou	Hefei, China
Soochow University	Sept. 2019 – Jun. 2023
B.Eng in Computer Science & Technology	Suzhou, China
• GPA: 3.90/4, Average Score: 93.9/100, Rank: 2/158	

Experience

Microsoft (Microsoft Research Asia)	Nov. 2022 – Apr. 2023
Research Intern, SRG/Heterogeneous Extreme Computing (HEX) Group, mentored by SR. RSR. Kun Li	Beijing, China
• Addressed the inefficiency of traditional DFT (Density Functional Theory) methods in quantum chemistry on GPUs by optimizing memory layout through block constructors , reducing memory requirements from $O(n^4)$ to $O(n^2)$.	
• Developed a graph compiler to abstract computations into directed acyclic graphs , automating the generation of optimal computation paths. Implemented CUDA code, achieving a 10x acceleration in computational performance.	
Microsoft (Microsoft Software Technology Center Asia)	Jul. 2022 – Oct. 2022
Software Engineer Intern, M365/Data and analysis (DnA) Group, mentored by SR.SDE. Guo Yi	Suzhou, China
• Developed Intelligent Diagnostic Tool for Teams to address inefficiencies in troubleshooting real-time data processing pipelines and reduce reliance on expert knowledge , and integrated it with the Microsoft Data Manager UI system.	
• Built a data collection module to integrate multi-source data across platforms, including logs, databases, internal records, and CFV. Implemented a cross-validation diagnostic algorithm, reducing troubleshooting time from hours to minutes , and supporting root cause analysis for 50+ event types and thousands of fields. Designed an intelligent summary generation module to parse and trace issues, providing comprehensive and detailed support for subsequent anomaly prevention.	

Publications

SaTrack: LoS/NLoS State-Aware WiFi Indoor Tracking System	Dec. 2024
IEEE International Conference on Sensing, Communication, and Networking (SECON 2024) [CCF-B]	Phoenix, USA
• Optimized the EM-based path decomposition algorithm by leveraging the diversity of multi-antenna reference signals to enhance path estimation accuracy.	
• Applied DBSCAN for dual-domain path selection in both spatial and temporal domains, addressing performance degradation in WiFi indoor positioning under non-line-of-sight scenarios.	
• Achieved a median tracking error of 0.64m in complex environments, significantly outperforming existing solutions.	

Competitions

Collegiate Computer Systems & Programming Contest (CCSP) Bronze Medal	Oct. 2020
LanQiao Cup Algorithm Competition (C++ & Python) Provincial First Prize & National Excellence Award	Jun. 2022
China Undergraduate Mathematical Contest in Modeling Provincial First Prize	Nov. 2021
Mathematical Contest In Modeling Meritorious Winner	Mar. 2022

Projects

Millimeter-wave based voiceprint & phonetic recognition system	Feb. 2025
• Developed a non-contact sensing system using millimeter-wave radar to capture laryngeal vibration signals , with subsequent feature extraction and noise suppression processing.	
• Implemented neural network architectures for pattern recognition, achieving 96% accuracy on 46-class voiceprint identification and 98% accuracy on 48-class phonetic symbol recognition	
Simple language compiler based on C++	Sept. 2021
• Implemented lexical analysis , syntax analysis , semantic analysis .	
• Reading character stream from file, then converting it into grammar tree by top-down method according to grammar rules, then converting it into assembly code file by recursively descending attribute translation, finally reading assembly code by simulator based on stack and executing it.	

Leadership & Extracurricular

Student Association for Science and Technology	Aug. 2020 – Sept. 2021
President	School of Computer Science & Technology, Soochow University
• Managed all departments & Organized meetings & Reached business cooperation with LeetCode .	
Graduate Student Union	Aug. 2024 – Sept. 2025
Minister of Publicity Department	School of Computer Science & Technology, University of Science and Technology of China
• Edited and reviewed official posts & Hosted school events & Photographed event visuals for promotional use.	

Honors & Awards

Top Prize of Academic Excellence (2%), First Prize of Research and Innovation (5%), Zhengxiong Scholarship (2%), Merit Student, Excellent Graduation Thesis, Outstanding Graduate Award
