

# YINNAN ZHOU

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🏡 yinnanzhou.github.io

## Education

### University of Science and Technology of China

M.Sc. in Computer Science & Technology, advised by Prof. Hao Zhou

Sept. 2023 – Jun. 2026

Hefei, China

### Soochow University

B.Eng in Computer Science & Technology

Sept. 2019 – Jun. 2023

Suzhou, China

- GPA: **3.90**/4, Average Score: **93.9**/100, Rank: **2**/158

## Experience

### Microsoft (Microsoft Software Technology Center Asia)

Jun. 2025 – Sep. 2025

Software Engineer Intern, SOX/Teams Group, mentored by SR.SDE. Yi Jiang & SDE II Xiangyu Shen

Suzhou, China

- Developed the **Teams AI Rehearsal** module to automatically generate **multi-dimensional summaries and feedback** from meeting content with LLM, helping presenters improve their performance.
- Designed and optimized **prompt engineering** to constrain LLM outputs into structured JSON, ensuring accuracy, stability, and **reusability** of feedback. Implemented front-end integration in **React**, presenting results through an **interactive radar chart** for a clear and intuitive user 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

## 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