Yinnan Zhou

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Education

University of Science and Technology of China **Sept. 2023 – Jun. 2026**
Master student in Computer Science & Technology, advised by Prof. Hao Zhou *Hefei, China*

National Institute of Informatics **Dec. 2025 – Mar. 2026**
International Research Intern, advised by Prof. Yusheng Ji (IEEE Fellow) *Tokyo, Japan*

Soochow University **Sept. 2019 – Jun. 2023**
Bachelor's Degree in Computer Science & Technology *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.

Using Cross-modal Distillation to Improve mmWave-based Speech Recognition **Mar. 2026**
IEEE International Conference on Computer Communications (**INFOCOM 2026**) Workshop *Tokyo, Japan*

- Proposed **mmHear**, a mmWave-based speech recognition system leveraging phase-based FMCW sensing to capture vocal-cord micro-vibrations for noise-resistant and privacy-preserving interaction.
- Designed a **three-stage cross-modal distillation** framework (audio pre-training → in-domain adaptation → synchronized audio-mmawve transfer) and developed a multi-objective joint optimization strategy to enable effective knowledge transfer.
- Achieved **95.6%** recognition accuracy on an mmWave-based 48-class IPA dataset, significantly outperforming existing state-of-the-art methods trained solely on the mmWave modality.

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**

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