周荫南

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教育背景

中国科学技术大学 (University of Science and Technology of China) 硕士, 计算机科学与技术学院, 计算机科学与技术专业

2023.09 至今

苏州大学 (Soochow University)

2019.09-2023.06

本科, 计算机科学与技术学院, 计算机科学与技术专业

绩点: •3.90/4, 均分: 93.9/100, 排名: 2/158

课程: • 高数上(99)下(100) • C++(98) • Java(96) • 离散数学(97) • 数值分析(98)

操作系统(96)数据库(95)编译原理(99)算法设计与分析(99)人工智能(95)

英语: • 雅思: 6.5 • 六级: 526

实习经历

微软亚洲研究院, 北京/SRG/Hex Group

2022.11- 2023.04

• 在 CPU-GPU 异构系统上对 HF/DFT 量子化学计算方法进行加速,采用剪枝、**并行计算、异构加速**等方法进行算法优化

• C++、CUDA、Python

微软(亚洲)互联网工程院, 苏州/M365/DnA Group

2022.07 - 2022.10

• 开发了 **Teams** 智能**错误诊断工具**,从上游的不同数据源中**获取各类数据**(含身份**权限验证**),解析并生成不同维度的**数据摘要**,最后对数据进行进一步解析,**定位问题**并**分析原因,**生成分析**文档** • 前端: **React** • 后端: **C#**

科研论文

SaTrack: LoS/NLoS State-Aware WiFi Indoor Tracking System

2024.10

- ・独立一作, SECON 2024 [CCF-B 类国际会议]
- 提出基于 WiFi 的 LoS/NLoS 状态感知室内定位系统 SaTrack, 通过时空聚类优化路径选择
- 在复杂环境中实现 0.64 米中位追踪误差,性能显著优于现有方案。

MELoc: Indoor localization system integrating MUSIC & EM algorithms

2024.08

- 第二作者, International Conference on Big Data Computing and Communications (Bigcom 2024)
- 提出单 AP 定位方法, 进行 MUSIC-EM 协同优化与 RSSI 动态校准

学科竞赛

CCF 大学生计算机系统与程序设计竞赛(CCSP), 华东赛区铜奖	2020. 10
第三届全国大学生算法设计与编程挑战赛,银奖	2022. 03
蓝桥杯程序设计竞赛 C/C++组、Python 组,省一等奖、全国优秀奖	2022.06
全国大学生数学建模竞赛, 江苏省一等奖	2021.11
美国大学生数学建模竞赛, 一等奖(Meritorious Winner)	2022.05

技术项目

基于毫米波的声纹识别和音标识别, 独立开发

2025.02

- 利用毫米波雷达,捕捉人声的**喉咙振动信号**,进行**提取和去噪**处理后,利用**神经网络**训练
- 在 46 种声纹和 48 个国际音标的数据集上,分别取得 96%和 98%的识别准确率

基于 C++的 Test 语言编译器, 独立开发

2021.09

- 实现了词法分析、语法分析、语义分析、栈式模拟器的功能
- 从文件中读取**字符流**、根据语法规则采用自顶向下方法转化为**语法树**、通过递归 下降的属性翻译转化为**汇编代码**文件、最后用栈式模拟器读取汇编代码并**执行**

组织活动

苏州大学计算机科学与技术学院科协, 办公室部长

2020.09 - 2021.08

- 负责科协会议的安排、主持,各部门的组织、管理;
- 与力扣达成商业合作,举办苏州大学"解密马拉松"活动

中国科学技术大学计算机科学与技术学院研究生会, 宣传部部长 2024.09 至今

- 负责撰写和审核研究生会活动的公众号推文
- 负责研会活动的主持、摄影工作

荣誉奖励

苏州大学:

2019.09-2023.06

学习优秀特等奖(2%)、创新创业一等奖(5%)、综合奖学金 正雄奖学金、雨菡奖学金 三好学生、优秀共青团员、优秀青年志愿者 优秀毕业论文、优秀毕业生

中国科学技术大学:

2023.09 至今

研究生一等学业奖学金

Yinnan Zhou

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Education

University of Science and Technology of China

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

Sept. 2023 - Present Hefei, China

Soochow University

Sept. 2019 - Jun. 2023

B.Eng in Computer Science & Technology

Last Updated: Feb. 2025

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

Suzhou, China

Experience

Microsoft (Microsoft Research Asia)

Nov. 2022 - Apr. 2023

 $Research\ Intern,\ SRG/Heterogeneous\ Extreme\ Computing\ (HEX)\ Group,\ mentored\ by\ RSR.\ Kun\ Li$

Beijing, China

- Accelerated HF/DFT quantum chemistry calculation methods on CPU-GPU heterogeneous systems. Used computation pruning, parallel solving and heterogeneous scheduling to optimize the algorithm.
- C++ & CUDA

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 troubleshooting upstream data in Teams Application, which automatically collects abundant data in different upstream sources with required authentication, then analyzes data to locate the problem and find out the cause, finally generates a comprehensive analysis report.
- Front-End: React , Back-End: C#

Publications

SaTrack: LoS/NLoS State-Aware WiFi Indoor Tracking System

Dec. 2024

IEEE International Conference on Sensing, Communication, and Networking (SECON 2024) [CCF-B] • Yinnan Zhou, Hao Zhou, Luowei Li, Siming Chen, Zhi Liu and Xiang-Yang Li

Phoenix, USA

MELoc: Indoor localization system integrating MUSIC and EM algorithms

Aug. 2024

International Conference on Big Data Computing and Communications (BigCom 2024)

Dalian, China

• Siming Chen, Yinnan Zhou, Hao Zhou

Competitions

 $\textbf{Collegiate Computer Systems \& Programming Contest (CCSP)} \mid \textit{Bronze Medal}$ Oct. 2020 China Collegiate Algorithm Design & Programming Challenge Contest | Silver Medal Apr. 2022 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 | Independent Developer

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 International Phonetic Alphabet (IPA) recognition tasks

Simple language compiler based on C++ | Independent Developer

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 other departments & Organized and Presided over the meetings.

• Reached business cooperation with LeetCode to organize the Puzzle Marathon activity.

Graduate Student Union

Aug. 2024 – Present

Minister of Publicity Department School of Computer Science & Technology, University of Science and Technology of China · Created and edited official WeChat posts, including content writing, image selection, and layout design.

• 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, Outstanding Graduate Award

Sept. 2019 - Jun. 2023

First Prize of Academic Excellence

Sept. 2023 - Present