

Heyu Ding

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Profile

- Undergraduate, Major in Computer Science and Technology.
- Research interests includes: data analysis, Computer Architecture.
- Possesses a solid professional foundation and extensive project experience.
- Keen of choral singing, used to serve as a key member of the publicity department of USTChorus.

Education

University of Science and Technology of China, Computer Science (Bachelor) Sept 2021 – June 2025

- GPA: 3.54/4.3
- **Coursework:** Computer Organization, Operating System, Introduction to Data Science, Comprehensive Experiment Of Computing System, Computer System

Experience

Teaching Assistant, Introduction to Computing Systems A Sept 2024 – Now

- Responsible for creating and grading assignments and exams, conductint problem-solving sessions to explain assignments and key exam topics and assisting students with their questions

Projects

PC program Design and Implementation for Resistive Pressure Mapping Textile github.com/zuijiangwan/matrix

- Designed and implemented a PC software application for a Resistive Pressure array device, a communication protocol with the embedded system to facilitate data transmission and command interaction.
- Achieved real-time data reception, visualization, and storage functionality, supporting data transfer via Bluetooth, serial, SD card, and USB 3.0. Finally, created a simple application scenario for demonstration.
- Tools Used: C++, Qt, Cyapi

Knowledge-driven Health Monitoring System 2023

- Developed a user interface and tongue image collection program that captures user image data and uploads it to the cloud, allowing users to view their medical records locally
- Tools Used: js, xss

Compiler from Cminusf to Loongson Assembly Code 2023

- Built a complete compiler, including lexical analysis and syntax analysis, translation from Cminusf language to Light IR intermediate language, translation from intermediate language to Loongson assembly code
- Completed the Mem2Reg optimization
- Tools Used: C++, Light IR, Flex, Bison

Awards and Certificates

Awards: Silver Award for Excellent Student Scholarship, Bronze Award for Excellent Student Scholarship, Progress Award Scholarship

Certificates: CET-6 590 points, CET-4 611 points, CET-6 Spoken English Proficiency Excellent

Technologies

Languages: C++, C, Verilog, Python, SQL

Technologies: Visual Studio Code, Qt, SQL Server