

刘恒远

LIU HENGYUAN



Personal Information

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Education Background

University of Science and Technology of China

Sept 2020 – July 2024

Bachelor of Computer Science and Technology Bachelor's Degree

English Proficiency: IELTS : 6.5

Highly Proficiency in: C/C++, Python, Matlab

Internship Experience

◆ Zhongrong Technology Co., Ltd

2 Jun – 28 Aug 2023

Post: IT Technician

- ◆ Serving as the first point of contact for IT support within the organisation
- ◆ Maintaining working components through repair or replacement of computer hardware and software
- ◆ Supporting people whenever they encounter challenges with computers and network devices
- ◆ Preparing website with proper coding and content pertinent to company business needs

Experimental Research

1. Design of RISC-V Single-Cycle CPU and Pipeline CPU:

- ◆ Write single-cycle and pipeline CPUs using Verilog and implement machine instructions for arithmetic operations, logical operations, jumps, branch prediction, and more.

2. Implementation of Basic Features in Cminus-f Compiler:

- ◆ Implement a lexical analyzer based on flex and a syntax analyzer based on bison, and use the visitor pattern to generate intermediate representation (IR) automatically.

3. Design of Linux File System and Memory Management:

- ◆ Write modules to observe process memory structure, print page tables, design a dynamic memory allocator, and complete the design and implementation of the FAT16 file system.

4. Knowledge Graph Recommendation Model based on Python Web Scraping:

- ◆ Build a knowledge graph using a dataset obtained through web scraping, implement a recommendation model based on the graph, and a graph neural network (GNN) based recommendation model, and conduct testing on a test set.

5. Design and Visualization of Student Information Management System:

- ◆ Use Python for system interface visualization, MySQL for database management and design, and implement functionalities such as adding, deleting, modifying, and querying detailed information about teachers, administrators, students, course selection, and course grades in the student management system.

Skills & Awards

- ◆ National College Student Mathematical Modeling Competition, Anhui Division - Third Prize - 2022
- ◆ "RoboGame" Robot Competition, University of Science and Technology of China - Third Prize – 2021
- ◆ Excellent Student Scholarship Award, Oct 2020

Core Courses

Data Structures, Computer Organization and Architecture, Principles and Techniques of Compiler, Principles and Design of Operating Systems, Computer Networks, Fundamentals of Algorithms, Database Systems and Applications, Foundations of Artificial Intelligence, Web Information Processing