

CHAO FEI

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Education

Nanjing Normal University

Bachelor of Engineering; GPA: 86.39/100(3.64/5)

Sep. 2019 – Jun 2024(Expected)

Nanjing China

Relevant Coursework

- Data Structures
- Fundamentals of Operating System
- Computer Composition and Structure
- Computer Network
- Principles and Applications of Database
- Deep Learning and Pattern Recognition
- Fundamentals of Computer Systems
- Design and Analysis of Algorithms

Professional Experience

Red Hat

Quality Engineer Intern

Nov 2023 - Jun 2024(expected)

Beijing China

- Responsibilities: Excelled in implementing comprehensive testing strategies for Linux kernel modules, enhancing software stability and efficiency, while also streamlining defect detection and resolution processes.
- Achievements: Tasked with designing and executing detailed test plans, automating testing processes, and assessing the performance of Linux kernel modules to identify and address optimization opportunities.

AsiaInfo Technologies Limited

Technical Intern

Jul 2023 – Sep 2023

Changsha China

- Responsibilities: Developed and debugged Cpp business code on Linux. Optimizing on large-scale systems, adding new features.
- Achievements: Independently designed a module, integrated it into the project code, and achieved significant performance improvements through this module. Gained a deep understanding of the business project architecture and mastered the process from coding to task launching.

Wiscom System Co.,Ltd.

Hardware Engineering Intern

Apr 2023 – Jun 2023

Nanjing China

- Responsibilities: Assisted team members in development efforts, gained knowledge in CoAP and MQTT protocols, and contributed to the implementation of these protocols within the project.
- Achievements: Gained an in-depth understanding of embedded systems and became proficient in the process of developing embedded software. Acquired new insights at both the hardware and software levels.

Nanjing Normal University

Teaching Assistant for Operating Systems Course

Sep 2023 – Jan 2024

Nanjing China

- Assisted in preparing course materials and conducting labs.
- Guided students in understanding core OS concepts and resolving their queries.
- Collaborated with the professor to ensure smooth conduct of the course.

Academic Experience

Chemistry Experiment Evaluation System for Teaching, Learning, and Assessment in Secondary Schools

Project Team Member

Jun 2022 - Jun 2023

Nanjing China

- Responsibilities: Collaborated in collecting and annotating a chemistry experiment dataset; contributed to training a model using YOLOV8, which achieved satisfactory results.

Publications

Delay-Aware Device Grouping in IEEE 802.11ah-based Networks

- 2023 IEEE 15th International Conference on Advanced Infocomm Technology (ICAIT 2023) Conference Proceedings

Projects

Lightweight WebServer on Linux | *Cpp, epoll multiplexing, thread pools, and timers.* **Sep 2022 - Nov 2022**

- Achievements: Delved deep into the working principles and flow of network servers, enhancing programming and debugging skills. Gained insights into the foundational principles of the HTTP protocol. Acquired proficiency in developing under the Linux system.

Lightweight SkipList Storage Engine | *Cpp, SkipList, File Handling, epoll multiplexing, Port Listening.* **Dec 2022**

- Achievements: Deeply understood the principles and implementation of SkipList and learned to write efficient and stable storage engines using Cpp.

Award&Scholarship

Second Prize, 13th Blue Bridge Cup Algorithm Competition	Apr 2022
Third Prize, 12th Blue Bridge Cup Algorithm Competition	Apr 2021
Second-Class Outstanding Student Scholarship	Nov 2022
Third-Class Outstanding Student Scholarship	Apr 2022
Third-Class Outstanding Student Scholarship	Oct 2021
Third-Class Outstanding Student Scholarship	May 2020

Technical Skills

Languages: Cpp, Python, Java, Go, Matlab

Developer Tools: Visual Studio Code, IntelliJ Idea

Databases: MySQL, PostgreSQL

Operating Systems: Familiar with developing under Linux.

Soft Skills: Experienced in team collaboration and project leadership.

Areas of Interest: Algorithm, Computer Systems.

Leadership: Led a team to achieve satisfactory results in school course experiments.