

# Qiwei Chen

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Sep 21, 2003

CPC Probationary Member

Portfolio



## Education

### Shanghai Jiao Tong University Software Engineering

Academic Score: 91.0/100 (Rank: 7/93)

Sep 2022 - Present

GPA: 3.91/4.30 (Rank: 12/93)

#### Honors

- Jiang Scholarship 2023-2024
- Outstanding Undergraduate Scholarship, SJTU 2022-2024
- Outstanding Student Leader & League Member, SJTU 2023-2024

## Projects

### OpenTrustee LLM

2024.09 - 2024.11

Led the development of secure LLM inference deployment on edge devices using OpenTrustee and llama.cpp. Designed and implemented model loading and inference modules in TEE environment, ensuring model parameter security through hardware encryption. Won Third Prize in OpenHarmony National Competition.

### Tiger Language Compiler

2024.09 - 2025.01

Designed and implemented a Tiger compiler with Flex/Bison for lexical/syntax analysis and AST for semantic analysis. Optimized code generation via stack frame management and register allocation. Enhanced performance through LLVM-based multi-level optimization.

### CHFS Distributed File System

2024.09 - 2025.01

Designed and implemented a GFS-based distributed file system. Managed file metadata using Inode mechanism, implemented logging and snapshot features for data reliability. Achieved multi-replica consistency using Raft algorithm with automatic failure recovery. Supported concurrent requests and large-scale file storage with fast retrieval capabilities.

### UniGPT Prompt Platform

2024.02 - 2024.09

Led a 4-person team in agile development. Designed microservices architecture and implemented k8s-based deployment pipeline. Integrated LLM capabilities with langchain4j for intelligent prompt recommendations. Won Excellence Award in Software Exhibition.

### LSM-Tree Key-Value Store

2024.04 - 2024.06

Independently implemented an LSM-Tree based key-value storage system. Developed skiplist index structure in C++ supporting efficient insertion, deletion, and query operations. Ensured data persistence through WAL mechanism, optimized read performance using LSM-Tree, and reduced read amplification with Bloom filters.

## Leadership & Activities & Internship

### Student Leadership

- Student Union Member, SEIEE
- Class Committee Member
- Member of "Si Yuan" Program

### Social Practice

- Social Research Project in Hunan
- Greater Bay Area Investigation

### Internship

- Jiangnan Technology  
2025.01 - 2025.02

## Technical Skills

- Programming Languages:** Proficient in C/C++; Skilled in Python, Java, JavaScript; Familiar with Swift
- Development Skills:** Microservices Architecture, DevOps, LLM Deployment, Secure Computing, Distributed Systems, llama.cpp
- Language Skills:** CET-6 Certification, Strong Technical Documentation Abilities