Qiwei Chen

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📅 Sep 21, 2003
👤 CPC Probationary Member
🏠 Portfolio

🎓 Education

Shanghai Jiao Tong University **Software Engineering** Sep 2022 - Present
Academic Score: 91.0/100 (Rank: 7/93) *GPA: 3.91/4.30 (Rank: 12/93)*

Honors

- Jiang Scholarship, Outstanding Undergraduate Scholarship 2023-2024
- Outstanding Student Leader, 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 as project manager. Responsible for system architecture design and technology selection, implementing microservices architecture for scalability. Established k8s-based service orchestration and automated deployment pipeline. Integrated LLM capabilities using langchain4j framework for intelligent prompt recommendations. Won Excellence Award in Software Exhibition.

e-BookStore Platform *2024.02 - 2025.02*
Independently developed a full-stack e-book trading platform. Implemented service discovery and configuration center using Spring Cloud microservices architecture. Utilized Redis for caching and Kafka for service decoupling. Implemented full-text search with ElasticSearch, supporting complex multi-database queries. Deployed using Docker with Nginx load balancing.

🎓 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

- Jiangran Technology Co., Ltd.
  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