

Yiyang Wu

 ToolmanP |  toolmanp@outlook.com

A professionally trained student looking for an internship on system development starting from now

Education



Bachelor of Software Engineering

SHANGHAI JIAOTONG UNIVERSITY, CHINA

2021 - 2025

Shanghai

- Course: Data Structure(C++) A+
- Course: Advanced Data Structure(C++) A
- Course: Intro to Computer Systems I/II/III A+
- Course: Intro to Software Engineering A+
- Course: Intro to Web Application Development A+
- Course: Pratical Web Application Design and Development A+

Research Experience

Medical Imaging Analyst

2021 - 2022

SHANGHAI JIAOTONG UNIVERSITY

Shanghai

- Use PyTorch to build a deep neural network for Heart MRI feature extractions and multimodel fusion.
- Serve as a team leader for enhancing project management, leading teammates' thesis writing and controlling the project's progress.

Projects

NEMU

2022 Summer

NJU

github: ics-pa-gitbook/ics2021

- Use C and Assembly Language to build a native riscv64 architecture and simulator with interrupt system and virtual memory for x86 platform.
- Use C to build a little libc and device runtime for simulated riscv64 programs.
- Port a multitasking operating system and build a small POSIX-compliant shell to power the entire system.
- Use GNU Build system and organize over 100000+ LOCS with different compile-time options by configuring KConfig and Makefile.

MiniLSM

2023 Spring

SJTU

github: ToolmanP/BabyLSM

- Use Modern C++ to build a single-threaded KV engine by constructing and optimizing a LSM data structure.
- Use CMake to organize the code structure and optimize the project's building process.

Cealgull

2023 Summer - Present

SJTU

github: Cealgull/cealgull.app

- Master Safe/Unsafe Golang to build a containerized scalable and portable web3 application backend.
- Use OpenSSL to build a proof-of-authority based trading and analysis system.
- Use Cryptography Schemes to build an untracable trading protocol to protect users' privacy.
- Use Hyperledger/IPFS to build a decentralized/distributed ledger and storage system to support web3 usecase.
- Use Github CI/CD to leverage the project's progress monitoring and build a corresponding testing framework.
- Serve as a dev-team leader and devise the project's phased plan and serveral programming conventions

ChatSJTU

2023 Summer - Present

SJTU

Network & Information Center

- Use Django to build a real-time Chat API and session management and sharing backend.
- Completely walk through the OpenAI docs to forward students' requests and proxy the API's responses.
- Tweak the LLAMA-2 model to support docs' knowledge extraction and paraphrase the output for frontend.

Skills

Languages English | Chinese | Shanghaiese

Tech Stack Modern C++ | Python (Pytorch/Web) | Rust | Golang

Personal Interests Cooking | Reading | Programming