

ChengXiang Qi

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Education

TianJin University

Computer Science and Technology

September 2019 – June 2023(Expected)

TianJin, China

Projects

xv6-rust

03/2021 - 08/2021

MIT xv6-riscv implemented by Rust

[Ko-oK/xv6-rust\(☆73\)](#)

- A Unix-like operating system implemented pure rust.
- Optimize memory module using Buddy Sytem.
- Redesign Spinlock/Sleeplock as smart pointer.
- Optimize file system, making it support Rust features.

rCore-fat

07/2021 - 08/2021

MIT A operaing system based rCore-tutorial-v3 with fat32 file system

[rCore-fat](#)

- Design fat32 file system for rCore-Tutorial-v3, it is a alternative topic of rCore OS community in summer 2021.

Trivial-TCP

08/2021 - 09/2021

A TCP/IP stack implemented in pure C

[Trivial-TCP](#)

- A TCP/IP stack which use UDP to simulate low level network environment. This project is the final project of Computer Network Coursera.

mini-game-os

07/2022 - Now

A bare metal game running in raspberry pi 4 written in Rust

[raspberrypi-embedded/mini-game-os](#)

- This is my hobby project and also my first try to explore embedded system in Rust
 - It is designed for playing simple games such as snake game, flappy bird and son
 - It can run QEMU and raspberry pi 4B.
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Selected Awards

- NSCSCC Team Competition Third Prize in 2022
 - OSCOMP Team Competition Thrid Prize in 2021
 - The Best Quality Award in Summer 2021
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Selected Experiences

Teaching Assignment

09/2021 - 11/2021

- Pratic of ICS in 2021, I help students complete NEMU(a x86-32 software emulator).

TWT Studio

09/2019 - 01/2021

- Maintain Part Management System
 - Develop Intramural Forum System in WeiPeiYang
 - Develop AT(a office automation system)
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Skills

Programming Languages: Rust, C/C++, Go, Python, HTML?CSS/JavaScript. PHP

Frameworks: Vue3, Gin, Laravel

Tools: VSCode, gdb, GNU make, CMake, QEMU

Others

- Self taught CMU 15-445, MIT 6.S081 and other public courses and finish lab assignments
- Interested OS, Distributed System, Embedded System
- Persoanl open source projects have earned more than 200 stars.