CHENGXIANG QI

18630816527@163.com • GitHub (**117** followers)

EDUCATION

Tian, Jin Univeristy, Tian, China

08/2019 - 07/2023(Expected)

Computer Science and Technology, GPA: 3.361/4

SELECTED OPEN-SOURCE PROJECTS

xv6-rust: Re-implement and optimize MIT xv6-riscv in Rust((**45** stars))

03/2021 - 08/2021

- Optimize memory module using Buddy System
- Redesign SpinLock/SleepLock to be used as a smart pointer, realizing RAII in a true sense
- Optimized the file system, especially supporting Rust features in the implementation of inode and Buffer

rCore-fat: rCore-Tutorial-v3 With FAT32 File System

07/2021 - 08/2021

- Implement FAT32 crate in alloc environment
- · Re-design syscall for rCore-fat

xv6-riscv-solution: x86-32 Virtual Machine written by C

09/2020 - 01/2021

• I finished some lab assignments in this course by self-taught.

Trivial-TCP: TCP/IP Stack based UDP written by C

09/2021 - 10/2021

• Realize TCP standards such as connection management/reliable transmission/flow control/congestion control

NEMU: MIT 6.S081 (6.828) 2019 RISC-V Lab

07/2021 - 08/2021

- Debugger
- Decode, Execute Instructions
- · Segmentation, paging, secondary cache

EXPERIENCE

TianJin University

TianJin

Teaching Assignment 09/2021 – 11/2021

• Practice Of ICS in 2021

TWT Studio TianJin

Software Enginer 09/2019 - 01/2021

- Develop The Platform Of School Affiars
- Maintain The Platform Of Party

SKILLS

Programming Languages: Rust, C, Go, Python, C++, Systemverilog/Verilog, PHP, JavaScript, HTML/CSS (ranked by proficiency)

Tools and Frameworks: Git, GNU Make, CMake, QEMU, Vivado, VSCode

OTHERS

- Self-taught CMU 15-445, MIT 6.S081 and many other foreign public courses.
- Interested in OS, Computer Architecture, Distributed Systems.