ChengXiang Qi

📞 (+86) 186-3081-6527 · ✉ 18630816527@163.com · ⓞ KuangjuX · ⓑ blog

Education

TianJin University　Undergraduate　　　　　　　　　　　　　　　　09/2019 – Persent
- Major: Computer Science
- GPA: 3.32/4.0

Skills

- Programming Languages：C/C++/Rust/Go/Python/Js/PHP
- Developing Tools：Linux/Git/GNU Make/VsCode
- System：familiar with operating system concepts and design，implement an unix-like os in Rust; instrested in distributed system.
- Backend：Golang
- Frontend：Vue.js

Work Experience

TianJin University　Teaching Assignment　　　　　　　　　　　　　08/2019 - Persent
- Practice Of ICS in 2021

TWT Studio　Backend Engineer　　　　　　　　　　　　　　　　　09/2019 - 02/2021
- Develop The Platform Of School Affiars
- Maintain The Platform Of Party

Projects

Ko-ok-OS/xv6-rust　　　　**Contest**　　　　　　　　　　　　　03/2021 - Persent

Re-implement and optimize MIT xv6-riscv in Rust

The project won **the third prize** of the Operating System Competition in 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　　　　　　　　**Summer2021**　　　　　　　　　　07/2021 - 09/2021

rCore-Tutorial-v3 With FAT32 File System
- Implement FAT32 crate in alloc environment
- Re-design syscall for rCore-fat

TrivialTCP　　　　　　　　**Course**　　　　　　　　2021 年 8 月 – 2021 年 9 月

TCP/IP Stack based UDP written by C
- Realize TCP standards such as **connection management/reliable transmission/flow control/congestion control**

NEMU   **Course** 09/2020 – 01/2021

x86-32 Virtual Machine written by C

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

Contests

- **Operating System Competition in 2021   Three Prize**
- **Summer2021   Pass The Final Review**

Others

- Interest：OS、Distributed System、Computer Architecture