

# ChengXiang Qi

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## Education

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**TianJin University** Undergraduate 09/2019 – Present

- Major: Computer Science
- GPA: 3.32/4.0

## Skills

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- 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

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**TianJin University** Teaching Assignment 08/2019 - Present

- 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

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

*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**

*x86-32 Virtual Machine written by C*

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

## Contests

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

## Others

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- Interest: OS、Distributed System、Computer Architecture
- Over 100 stars in all self-created repos