

# Chi ZHANG

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Chi ZHANG is an undergraduate student in Shanghai Jiao Tong University. He builds system applications with the Rust programming language. He made contribution to several open source communities, such as TiKV.

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## Education

Shanghai Jiao Tong University Sep. 2018 - June 2022 (expected)

- Shanghai, China
  - Bachelor of Engineering (B.Eng.) in Computer Science
  - GPA 93.79 / 100, Ranking 1 / 155 (first 2 years)
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## Projects

Key-Value Store based on Raft Consensus Algorithm Apr. 2020

Individual Project. A project made after self-studying MIT 6.824. Part of *PingCAP Talent Plan* labs. [\[Code\]](#)

- Use state machine approach to build Raft node in a multi-thread environment.
- Beginner's experience in building distributed system with Rust.

An xv6-like operating system on RISC-V Jan. 2020

Individual Project. A project made after self-studying MIT 6.828. A Rust re-make of xv6. ☆ 53 [\[Code\]](#)

- Multi-core kernel thread scheduling, user process, and xv6-like syscalls.
- Gain basic experience of embedded system and kernel development with Rust.

Dynamic Scheduling RISC-V CPU Simulator July 2019

Individual course project. A circuit-level CPU simulator. Support RV32I ISA. ☆ 47 [\[Code\]](#)

- Implement out-of-order execution with Tomasulo Algorithm and Speculation.
- Gain basic understanding of how modern processors works.

A multi-threaded Ray-Tracer Jan. 2019

Individual Project. Based on Peter Shirley *Ray Tracing in One Weekend*. ☆ 32 [\[Code\]](#)

- A multi-threaded renderer made with Rust.
- Support user-defined scene, support several kinds of materials and objects.
- Use mixture PDF to reduce noise when rendering Cornell Box.

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## Experience

### Community Bridge Mentee, TiKV

May 2020 - July 2020

Implement Chunk format in TiKV coprocessor. Mentors: @breeswish and @TennyZhuang. [\[Issue\]](#)

### Maintainer, SJTUG Mirror

May 2019 - Now

SJTUG Mirror is a software registry mirror maintained by SJTUG (SJTU Linux User Group) [\[Website\]](#)  
We have a large user base, handling 12000 IP/day, 600k requests/day

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## Honors and Awards

### National Scholarship

Ministry of Education of P.R. China, 2019

- 0.2% nationwide