

# WEIWEN CHEN

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## EDUCATION

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### Fudan University

Aug 2017 - Now

Bachelor of Physics

Relevant Courses: Data Structure, Operating System, Computer Network, Introduction to Database.

## WORK AND RESEARCH EXPERIENCE

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### Department of Computer Science, Fudan University

Shanghai, China

Member of Data Analysis and Security Lab (Supervisor: Prof. Kai Zhang)

Jun 2021 - Now

- Developing multi tenant functionality on CMU's high-performance Key-Value database mica, with a doctoral student.
- Implemented a request sampling strategy to estimate load effectively in mica, inspired by Gprof.
- Upgraded DPDK's incompatible API on mica's 30K line code base, by introducing a test framework.

### PingCAP Inc.

Shanghai, China

Intern of Quality Assurance Engineer (Mentor: Shaowen Yin)

Nov 2020 - Apr 2021

Projects: [github.com/PingCAP-QE/metrics-checker](https://github.com/PingCAP-QE/metrics-checker) [github.com/cosven/tidb-testing/tipocket-ctl](https://github.com/cosven/tidb-testing/tipocket-ctl)

- Built a metrics checker for TiDB's automated test. Still maintained and used in pipeline after I left.
- Simplified debugging TiDB inside k8s container by developing a tool along with my mentor.
- Accomplished end-to-end test with developers in the release of a major version on time.

### Department of Optical Science and Engineering, Fudan University

Shanghai, China

Member of Computational Physics Lab (Supervisor: Prof. Hao Zhang)

Jun 2018 - Nov 2019

Publication: [www.nature.com/articles/s41699-020-0147-x](https://www.nature.com/articles/s41699-020-0147-x)

- Coded for data processing of a paper on computational material research in the name of third author.
- Trained all colleagues workflow of git and set up a private Gitlab. Still invited to give lectures about CS.
- Created some crawlers and scripts to aggregate data from several researchers' website. Still in use.

### School of Microelectronics, Fudan University

Shanghai, China

Teaching Assistant of SOC lab (Supervisor: Fei Ye, Camel Microelectronics)

Mar 2018 - Nov 2018

- Implemented CAN bus protocol on Camel's M2 chip, which has operating system, only a C compiler.
- Organized teaching material into a textbook and demonstrated them by videos, as training material for newcomers.

### Department of Physics, Fudan University

Sept 2017 - Now

- Built an atmosphere simulation and visualization, in python, at Statistical Physics lesson.
- Wrote an fuzzing tool, with rust, on Computer Architecture lesson.
- Implemented a subset of FTP protocol, in python, as Project of Computer Network lesson.

## EXTRACURRICULUM EXPERIENCE

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### PC Service of Fudan University

Mar 2017 - June 2019

- Volunteered giving consultancy on python and system management.

### Physics Experiment Teaching Center

July 2019

- Automated oil and water droplet classification under microscope with machine learning.

## SKILLS

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**Programming Languages (in proficiency order):** python, cpp, go, golang, shell, rust, javascript and lisp.

**Knowledge:** Database, operating system, algorithm, data structure.

**Language:** Chinese (Native), English (TOEFL 105).

**Extracurriculars:** Vim, Emacs, VSCode, Gnome Desktop, guitar, bass and bypassing GFW.