

WEIWEN CHEN

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WORK AND RESEARCH EXPERIENCE

Department of Computer Science, Fudan University

Shanghai, China

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

June 2021-Now

- Explored multi tenant on CMU's high-performance Key-Value database mica, with a doctoral student.
- Introduced the idea of random sampling to speed up load estimation, based on my prior knowledge of 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-April 2021

- Built a metrics checker for automated test with golang. Used and still maintained after I left.
- Simplified debugging TiDB inside k8s container by building a tool in python, along with my mentor.
- Accomplished end-to-end test with developers in the release of a major version.

Department of Optical Science and Engineering, Fudan University

Shanghai, China

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

June 2018-November 2019

- Coded for data processing of a paper on npj 2D Materials and Applications, in the name of third author.
- Taught my colleagues workflow of git, set up a private Gitlab. Still invited to give lectures from time to time.
- Wrote 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)

March 2018-November 2018

- Implemented CAN bus protocol on M2 chip produced by camel microelectronics, with another freshmen. Working with bare address and register, since there is only a C compiler and no operating system.
- Prepared textbook, recorded video for summer course "SOC system". Sometimes lab members will ask me for help on linux, and newcomers of the lab can always recognize me for the video.

EDUCATION

Fudan University

August 2017 - Present

Bachelor of Physics

GPA: 3.26/4

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

PROGRAMMING PROJECTS

PingCAP-QE/metrics-checker: Check metrics from prometheus, during internship in PingCAP Inc.

cosven/tidb-testing/tipocket-ctl: Help developers debug TiDB in k8s container, in PingCAP Inc.

ofey404/CFM, ofey404/YAFTP: Fuzzing tool and subset of FTP protocol, in class coding projects.

Slack Backup Bot For FDUCSLG: Tool to backup slack message for CS Lover's Group, Fudan University.

(All hosted on github.)

SKILLS

Programming Languages(Ordered by proficiency): python, cpp, golang, shell, rust, javascript and lisp.

Knowledge: Database, operating system, algorithm, data structure, UNIX concepts, low level programming tools and other common sense that help me survive in the computer world.

Language: Chinese, English.

I learn things fast.

Extracurriculars: Vim, Emacs, VSCode, Gnome Desktop, guitar, bass and bypassing GFW. Picking up drawing now.