WEIWEN CHEN

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EDUCATION

Fudan University   *Aug 2017 - Now*
Bachelor of Physics
Relevant Courses: Data Structure, Operating System, Computer Network, Introduction to Database.

WORK AND RESEARCH EXPERIENCE

Department of Computer Science, Fudan University   Shanghai, China
Member of Data Analysis and Security Lab (Supervisor: Prof. Kai Zhang)   *Jun 2021 - Now*

· Implemented 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 - Apr 2021*

· Built a metrics checker for automated test. Still maintained after I left.   *github.com/PingCAP-QE/metrics-checker*
· Simplified debugging TiDB inside k8s container along with my mentor.   *github.com/cosven/tidb-testing/tipocket-ctl*
· 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)   *Jun 2018 - Nov 2019*

· Coded for data processing of a paper in the name of third author. *www.nature.com/articles/s41699-020-0147-x*
· Taught my colleagues workflow of git, set up a private Gitlab. Still invited to give lectures about CS 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)   *Mar 2018 - Nov 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.

SKILLS

Programming Languages (in proficiency order): 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.