

Hao CHEN

<http://hao-chen.tk>

EDUCATION

THE UNIVERSITY OF TEXAS AT AUSTIN MS IN COMPUTER SCIENCE Dec 2017

Major GPA: 3.76 / 4.0

SHANGHAI JIAO TONG UNIVERSITY BENG IN COMPUTER SCIENCE June 2016

ACM Honored Class, Zhiyuan College

Major GPA: 88 / 100

PROGRAMMING LANGUAGES

Skilled in: C++, C, Python, C#

Very Familiar with: Java, SQL, Ruby, CUDA, OpenCL

EXPERIENCE

WERIDE CORP SOFTWARE ENGINEER - ONBOARD INFRASTRUCTURE Feb 2018 - Present

- Provide low-level on-vehicle tools for other teams
 - e.g., performance profiling, logging, multiprocess management, etc.
- Data pipelines from raw data on car to analytics or debugging tools
- High-quality C++14 code

VMWARE, INC INTERN (VMKERNEL TEAM) May 2017 - Aug 2017

- Designing and Implementing database on non-volatile memory
- based on the open-source code of Redis (in C)
- Use Redis-NVM as a primary database
- Use SSD as a backed storage for cold data

MICROSOFT RESEARCH ASIA RESEARCH INTERN (SYSALGO) Aug 2015 - Feb 2016

- new primitive on Microsoft Azure Table: 'lock-with-intent', which is a failure recovery handling toolkit
- Useful for easily building new functionalities like secondary index, snapshot, transaction and etc.
- Published on OSDI '16
- Written in C#

OTHER PROJECTS

TAI: THREADED ASYNCHRONOUS IO WIN. 2016 - WIN. 2017

- A C++ library to replace the POSIX Asynchronous IO interfaces and implementations
- Better performance and stronger properties than the existing async IO libraries
- Master thesis
- Worked with Tongliang Liao

PUBLICATIONS

Srinath Setty, Chunzhi Su, Jacob R. Lorch, Lidong Zhou, **Hao Chen**, Parveen Patel, and Jinglei Ren. "Realizing the Fault-tolerance Promise of Cloud Storage Using Locks with Intent". *The 12th Symposium on Operating Systems Design and Implementation (OSDI)*, Nov 2016.

Tianjian Li, **Hao Chen**, Weikang Qian, Xiaoyao Liang, Li Jiang. "On microarchitectural modeling for CNFET-based circuits". *The 28th IEEE International System-on-Chip Conference (SOCC)*, Sep 2015.