

Guanzhou Hu

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<http://josehome.tk>

EDUCATION

ShanghaiTech University

Sep 2016 - Jul 2020

Undergraduate; Computer Science; School of Information Science and Technology

Shanghai, China

- GPA: 3.89 / 4.0 (Top 1)
- Honors: President's Scholarship (2017), Overseas Exchange Scholarship (2017), Outstanding Student (2016-2017)
- Relevant Coursework: Computer Architecture, Operating Systems, Computer Language and Compilers

University of Padua

Aug 2018 - Oct 2018

Undergraduate Summer School Program

Padua, Italy

- GPA: 4.0 / 4.0
- Cross-disciplinary summer school program across Informatics, Arts and Fundamental Sciences

University of California, Berkeley

Jul 2017 - Sep 2017

Undergraduate Summer School Program

Berkeley, United States

- GPA: 4.0 / 4.0
- Honors: Best Presentation Group (PACS159)

RESEARCH EXPERIENCE

Active I/O: High Performance Distributed Data Indexing Storage System

Feb 2018 - Present

Research Assistant; ShanghaiTech University, L.I.O.N Group

- Designed a high-performance, distributed file system based on PLFS that actively classifies large-scaled, tagged data, optimizes the lower level physical storage scheme and improves data indexing performance.
- Built the intra-tag clustering + inter-tag distributing storage model and simplified original data file opening and reading process.
- Tested with rosbag files on clusters and achieved 1.26x read performance improvement so far.

pREFA: presentation tool for Regular Expressions and Finite Automatons

Sep 2018 - Present

Leader of project team

- Designed a presentation tool for Regular Expressions and Finite Automatons as a Python library which mainly aims at in-class teaching and demonstration. GUI support in progress.
- Nominated to present in Computer Language and Compilers class.

Paralleled CSV Read / Write Model Course Project

Jun 2018 - Jul 2018

Leader of project team

- Designed a paralleled read / write model for efficiently reading, splitting and writing csv data files according to different tag columns, utilizing MPI and OpenMP paralleled computing frameworks.
- Tested with *systor-01* I/O record dataset from SNIA and achieved 4.25x latency reduction.

WORKING EXPERIENCE

Teaching Assistant in Operating Systems

Sep 2018 - Present

School of Information Science and Technology; ShanghaiTech University

- Gave tutorial and recitation lessons to Operating System students, maintained the course web-page and guided course project works.

Teaching Assistant in Discrete Mathematics

Mar 2018 - Jul 2018

School of Information Science and Technology; ShanghaiTech University

- Arranged office hours and assisted homework posting and correction.

AWARDS

- M Award, Mathematical / Interdisciplinary Contest in Modeling (MCM/ICM) 2018 Apr 2018
- Outstanding Volunteer Award, Global Artificial Intelligence Hackathon 2017 Jun 2017

MISCELLANEOUS

- **Skills:** System Programming, C/C++, Python, Linux Server
- **Languages:** English (Fluent), Chinese (Native)