Xinchen Jin

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Education

Shanghaitech University   *Shanghai, China*

Undergraduate, Computer Science, School of Information Science and Technology   Sep. 2020 - Jun. 2024

- Cumulative GPA: 3.82/4.0 (9/177) Major GPA: 3.98/4,0

University of California, Berkeley   *Berkeley, California*

GLOBE Exchange Program student   Jan. 2023 - May. 2023

- Courses: CS152/252A Computer Architecture and Engineering (A), CS161 Computer Security (A), CS267 Applications of Parallel Computers(A-)

Experience

Reflexive forwarding in Named-Data Network   *Guangzhou, China*

Research assistant, instructed by Prof. Dirk Kutscher, The Hong Kong University of Science and Technology (Guangzhou)   July. 2023 - Sept. 2023

- Designing and implementing reflexive forwarding using ndn-cxx and NFD (C++)
- Preserving the anonymity of the client when communicating with the server by keeping track of interests in the forwarder

Python Software Debloat Analysis Project   *Shanghai, China*

Research assistant, instructed by Prof. Yutian Tang, ShanghaiTech University   Mar. 2022 - Aug. 2022

- Deployed call graph analysis on Python packages to debloat software
- Analyzed and visualized dependencies of Python packages based on call graph analysis results

CS100 Introduction to programming   *Shanghai, China*

Teaching assistant, ShanghaiTech University   Mar. 2022 - Jun. 2022

- Prepare tutorial and recitation lessons to students about C/C++
- Answer students' questions on course forum

Project

Serving Multiple Distributed Deep Learning Models on a Shared GPU Cluster

CS267 Application of parallel computers, UC Berkeley   Jan. 2023 - May. 2023

- Designed Computron, a system that uses memory swapping to serve multiple distributed models on a shared GPU cluster
- Implemented a model parallel swapping design that utilizes the CPU-GPU link bandwidth to speed up model parameter transfers
- Realized the function of serving many large models to handle different tasks

Athernet course project

CS120 Computer Networks, ShanghaiTech University   Sep. 2022 - Jan. 2023

- Built an acoustic network from scratch, and wrote programs using the JUCE framework and C++
- Designed customized high-efficiency system architecture that is compatible with current network protocols

An End-to-End Encrypted File Sharing System

CS161 Computer Security, UC Berkeley   Apr. 2023 - May. 2023

- Realized a file sharing system using Go language
- Designed the system architecture using encryption and segmenting techniques to ensure security and efficiency

PintOS course project

CS130 Operating System, ShanghaiTech University   Sep. 2022 - Jan. 2023

- Finished PintOS project with C Language
- Implemented thread, syscall, virtual memory part to better understand how the kernel works

People's willingness to donate blood: an ABM approach

MATH1114 Introduction to Stochastic Simulation Methods and its Application, ShanghaiTech University   Sep. 2022 - Jan. 2023

- Used ABM methods to investigate people's willingness to donate blood
- Wrote programs using Python Mesa package to simulate people and community's activity
- Refined assumptions of the original paper to better model real world blood donators

Awards and Honors

| Dec.2021 | **Honorary Title**: "Merit student" of ShanghaiTech Univerisity (3-7%) |
| Dec.2022 | **Honorary Title**: "Outstanding student" of ShanghaiTech Univerisity (2%) |

Skills

Programming languages and software	Matlab, C/C++, Python, RISC-V, Go, LaTeX, Office
Tools and platforms	Nginx, Kubernetes, Bash, Docker, Git
Languages	Chinese(Native), English

Activities

Volunteer in School Open Day   *Shanghai*
ShanghaiTech University   Dec. 2021
- Maintained examination software service
- Guided candidates and welcome vistors

Social pracice, Gansu, China   *Gansu*
ShanghaiTech University   Jul. 2021
- Researched the tourism industry and Chinese traditional medicinal materials plantation
- Conducted team report to assist local government upgrading local services

Industrial pracice, Zhejiang, China   *Zhejiang*
ShanghaiTech University   Aug. 2022
- Investigated enterprises and laboratories including LOCTEK and Yongjiang Lab
- Authored a report about applications of AI in industry