

# Xinchen Jin

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## Education

### Shanghaitech University

Shanghai, China

Undergraduate, Computer Science, School of Information Science and Technology

Sep. 2020 - Jun. 2024

- GRE: 327+4.0, TOEFL: 102
- 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 donors

## Awards and Honors

Dec.2021	<b>Honorary Title:</b> “Merit student” of ShanghaiTech Univerisity (3-7%)
Dec.2022	<b>Honorary Title:</b> “Outstanding student” of ShanghaiTech Univerisity (2%)

## Skills

<b>Programming languages and software</b>	Matlab, C/C++, Python, RISC-V, Go, L <sup>A</sup> T <sub>E</sub> X, Office
<b>Tools and platforms</b>	Nginx, Kubernetes, Bash, Docker, Git
<b>Languages</b>	Chinese(Native), English

## Activities

<b>Volunteer in School Open Day</b>	<i>Shanghai</i>
ShanghaiTech University	Dec. 2021
<ul style="list-style-type: none"> <li>Maintained examination software service</li> <li>Guided candidates and welcome vistors</li> </ul>	
<b>Social pracice, Gansu, China</b>	<i>Gansu</i>
ShanghaiTech University	Jul. 2021
<ul style="list-style-type: none"> <li>Researched the tourism industry and Chinese traditional medicinal materials plantation</li> <li>Conducted team report to assist local government upgrading local services</li> </ul>	
<b>Industrial pracice, Zhejiang, China</b>	<i>Zhejiang</i>
ShanghaiTech University	Aug. 2022
<ul style="list-style-type: none"> <li>Investigated enterprises and laboratories including LOCTEK and Yongjiang Lab</li> <li>Authored a report about applications of AI in industry</li> </ul>	