

Xinchen Jin

☎ (+86)198-2501-2981 | ✉ jinxch@shanghaitech.edu.cn | 📍 Shanghaitech University, Pudong, Shanghai, China

Education

Shanghaitech University

Undergraduate, Computer Science, School of Information Science and Technology

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

University of California, Berkeley

GLOBE Exchange Program student

- 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

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

- 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

Research assistant, instructed by Prof. Yutian Tang, ShanghaiTech University

- 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

Teaching assistant, ShanghaiTech University

- 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

- 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

- 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

- 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

- 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

- 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	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, L ^A T _E X, Office
Tools and platforms	Nginx, Kubernetes, Bash, Docker, Git
Languages	Chinese(Native), English

Activities

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