

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: 105
- 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

- Designed and implemented reflexive forwarding using ndn-cxx and NFD (C++)
- Preserved 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

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

CS101 Algorithms and data structures

Shanghai, China

Teaching assistant, ShanghaiTech University

Sept. 2023 - Now

- Prepared tutorial and recitation lessons to students about algorithms and data structures
- Graded students' homework and quizzes

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	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

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