

Boxuan Hu

+86 15156500613 ◊ bxhu2004@berkeley.edu ◊ 3157726199@stu.xjtu.edu.cn

◊ Github ◊ AcademicPage ◊ Self-learning Blog

EDUCATION

Bachelor of Computer Science, Xi'an Jiaotong University

Sept. 2022 - June. 2026

Honors Science Program (Computer Science)

CGPA: 3.79/4.30, Score: 92.34/100 (89.34+3)

Visiting Student, University of California - Berkeley

Aug. 2024 - Dec. 2024

Department of Electrical Engineering and Computer Sciences

GPA: 3.90/4.0, Grade: A (Summa Cum Laude)

RESEARCH PUBLICATION && PATENTS (* INDICATES EQUAL CONTRIBUTIONS)

Efficient Headroom Allocation with Two-level Flow Control for Lossless Datacenter Networks

Danfeng Shan, Jinchao Ma, Yunguang Li, **Boxuan Hu**, Tong Zhang, Yazhe Tang, Hao Li, Jinyu Wang, Peng Zhang
IEEE/ACM Transactions on Networking (CCF-A), under review

ISSN: 0733-8716

Sept. 2024

Hydrocephalus Diagnosis Support System Based on the UNet Model

Chengzhen Liu, **Boxuan Hu**^{*}, Lifan Gu

Computer Software Copyright Registration Certificate

Registration Number: 2024SR0750759

June. 2024

RESEARCH PROJECTS

SkyPilot: An Intercloud Broker for Sky Computing

Sept. 2024 - Dec. 2024

Focus on new functionality of Sky Serve: [SkyServe Sync Logs] [SkySys Pylint]

- SkyPilot is a framework for running LLMs, AI, and batch jobs on any cloud, offering maximum cost savings, highest GPU availability, and managed execution.
- Under the supervision of Prof. Ion Stoica, University of California - Berkeley

IntelliDoc: An Intelligent Document Knowledge Enhancement System

May 2024 - Jul. 2024

Teamed 3rd place globally, and rated as A+ at NUS Summer Workshop

- An AI-assisted document editor based on Kubernetes, integrating multiple components such as a frontend interface, backend processing, message queue, data storage, knowledge base generation, and AI interaction
- Under the supervision of Prof. Richard T. B. Ma, National University of Singapore

The Second Persona: An Innovative 2D Game Based on Unity

Mar. 2024 - Apr. 2024

Having Published on itch.io

- Utilizing Unity to construct game environments, simulate actions and events, and design sound effects
- Under the supervision of Prof. Kelvin Sung, University of Washington Bothell

Hydrocephalus Diagnosis Support System Based on the UNet Model

Oct. 2023 - Jul. 2024

Having Obtained Computer Software Copyright Registration Certificate

Awarded the Highest Distinction (Excellence Award) in National Undergraduate Innovation Training Program

- Training with the Unet model to achieve automated ventricular image segmentation
- Under the supervision of Prof. Chao Jin, Xi'an Jiaotong University

INTERNSHIP/TRAININGS

Sky Computing Lab @ University of California, Berkeley

Research Assistant, MultiCloud and Sky Computing

Sept. 2024 - Dec. 2024

Work with Prof. Ion Stoica, GSR. Tian Xia, GSR. Ziming Mao

School of Computing Summer Workshop @ National University of Singapore

Research Intern, Cloud Computing with Big Data

May 2024 - Jul. 2024

Work with Prof. Richard T. B. Ma

Advanced NeTworked System Group (ANTS) @ Xi'an Jiaotong University

Research Intern, Datacenter Networks

May 2023 - Present

Work with Prof. Danfeng Shan

ACHIEVEMENTS

Scholarship for Outstanding Students. **Third Prize**. Xi'an Jiaotong University *Fall 2023 2024*

Bronze Medalist. ACM ICPC Programming Contest. Shaanxi Region *Spring 2024*

Silver Medalist (ranking 9/103). ACM ICPC Programming Contest. Xi'an Jiaotong University *Spring 2023*

First Prize. Contemporary Undergraduate Mathematical Contest in Modeling. Shaanxi Region *Fall 2023*

First Prize. The Chinese Mathematics Competitions (CMC) *Fall 2023*

Third Prize. National College Student Olympic Mathematics Competition (CSOMC) *Spring 2023*

Excellence Award (Highest Distinction). National Undergraduate Innovation Training Program *Spring 2024*

Second Prize (ranking 91/1329). 'Tengfei Cup' Innovation and Entrepreneurship Competition *Spring 2024*

SERVICE

Teaching Assistant of *Introduction to Computer System*, XJTU *Spring 2025*

- Core course for undergraduates in the School of Computer Science and Technology, XJTU
- Main contributor to Organization / ICS-Textbook / Labs

Undergraduate Lecturer of *TechFounders*, UCB *Fall 2024*

- Orchestrating and delivering advanced technical training sessions

SKILLS AND INTERESTS

Research Interests Datacenter Networks, Congestion Control, Mobile Computing, Wireless Networks

Research Tools ns-3, Mininet, Ryu, VeriFlow, gdb, Logisim

Programming Languages C, C++, Python, C#, Go, Rust, JavaScript, X86 and RISC-V

Design Software Git, SSH, Linux, Shell, Docker, Kubernetes, MySQL, Xcode, Arduino, Unity, React, Vue.js

Text Composition LaTeX, Markdown, Obsidian, Keynote

DECLARATION

I hereby declare that all the details furnished above are true to the best of my knowledge and belief.