

# Boxuan Hu

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◊ Github ◊ AcademicPage ◊ Blog

## EDUCATION

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### **Bachelor of Computer Science, Xi'an Jiaotong University**

Sept. 2022 - June. 2026

*Honors Science Program (Computer Science)*

Core Courses: Game Design and Development (100)/ Software-Defined Networks (99)

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*

Core Courses: Great Ideas in Computer Architecture (CS61C) /

Computer Security (CS161) / Internet Architecture and Protocols (CS168)

Grade: TBD, Score: TBD/100

## RESEARCH PUBLICATION & PATENTS (\* INDICATES EQUAL CONTRIBUTIONS)

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### **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**<sup>\*</sup>, Lifan Gu

*Computer Software Copyright Registration Certificate*

Registration Number: 2024SR0750759

June. 2024

## RESEARCH PROJECTS

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### **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

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## 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

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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

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**Undergraduate Lecturer of TechFounders @ UC Berkeley**

Sept. 2024 - Present

· Orchestrating and delivering advanced technical training sessions

## SKILLS AND INTERESTS

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**Research Interests**

Datacenter Networks, Congestion Control, Cloud-Computing

**Research Tools**

ns-3, Mininet, Ryu, VeriFlow, Valgrind, gdb, Venus, Logisim

**Programming Languages**

C, C++, Python, C#, Go, Rust, JavaScript, Julia, X86, RISC-V

**Design Software**

Git, SSH, Django, Linux, Shell, Docker, Kubernetes, Hadoop, MySQL, Xcode,

Arduino, Swift, Unity, React, Vue.js

**Text Composition**

LaTeX, Markdown, Obsidian, Keynote

## DECLARATION

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