

# ZHUOFU CHEN

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## EDUCATION

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### Princeton University

*Ph.D. student in Computer Science*

Advisor: [Ravi Netravali](#)

Princeton, NJ, USA

Sept. 2025 - Present

### Tongji University

*B.S. in Computer Science and Technology (Elite Class)*

Shanghai, China

Sept. 2021 - June 2025

## RESEARCH INTERESTS

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I have broad interests in building system infrastructures to systematically bring better *performance, scalability* and *usability* to *real-world applications*. Specifically, I often contemplate how to *redesign next-generation datacenter systems* to bridge the gap between evolving hardware and emerging needs of software, and to serve data-intensive applications such as *AI inference and training*.

## EXPERIENCE

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### Infra Group, Moonshot

*Intern*

Feb. 2025 - June. 2025

- Developed an FP8 mixed-precision training framework.
- Investigated the impact and feasibility of mixed-precision training on large-scale model's inference and post-training processes.

### Catalyst Group, Carnegie Mellon University

*Research Intern* advised by [Zhihao Jia](#)

May. 2024 - June. 2025

- Designed a request level scheduler considering different SLO requirements across requests, achieving up to 73% higher SLO attainment.
- Implemented a novel position-persistent mechanism to reduce the overhead of sparse attention, demonstrating 20% improvement over the state-of-the-art.
- Works are published in EuroSys 2026, ICLR 2025.

### Institute of Parallel and Distributed Systems, Shanghai Jiao Tong University

*Research Intern* advised by [Xingda Wei](#) and [Rong Chen](#)

Jul. 2023 - Apr. 2024

- Developed an optimal GPU disaggregation system for transparently and efficiently serving AI applications with no performance degradation compared to local execution.
- Created a theoretical model characterizing the overhead of disaggregating applications, achieving an error margin within 10%.
- One paper is pending review.

### Key Laboratory of Embedded System and Service Computing, Tongji University

*Research Intern* advised by [Zhijun Ding](#)

Nov. 2022 - Oct. 2023

- Proposed a dynamic import mechanism to enhance WebAssembly-based runtime, introducing a shareable resource allocation paradigm.
- Implemented a state transfer method through shared memory, improving serialization into a storage layer.
- Implemented an OCI shim to bridge orchestration tools and runtime.

## PUBLICATIONS

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(\* indicates equal contribution)

- [1] Zikun Li\*, **Zhuofu Chen\***, Remi Delacourt, Gabriele Oliaro, Zeyu Wang, Qinghan Chen, Shuhuai Lin, April Yang, Zhihao Zhang, Zhuoming Chen, Sean Lai, Xupeng Miao, Zhihao Jia. [AdaServe: SLO-Customized LLM Serving with Fine-Grained Speculative Decoding](#), *Proceedings of the European Conference on Computer Systems (EuroSys)*, 2026.
- [2] Lijie Yang\*, Zhihao Zhang\*, **Zhuofu Chen**, Zikun Li, Zhihao Jia. [TidalDecode: Fast and Accurate LLM Decoding with Position Persistent Sparse Attention](#), *International Conference on Learning Representations (ICLR)*, 2025.
- [3] Tianxia Wang\*, **Zhuofu Chen\***, Xingda Wei, Jinyu Gu, Rong Chen, Haibo Chen. [Characterizing Network Requirements for GPU API Remoting in AI Applications](#), *Under review*.

## SELECTED PROJECTS

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### XPURemoting

- A GPU disaggregation system redirecting CUDA API calls to remote devices with near-native performance.
- An easy-to-use perf tool to model the overhead of disaggregation for arbitrary applications.
- 15k lines of code in Rust.

### FlexFlow SpecScheduler

- A performant LLM serving system for large batch decoding, especially for speculative decoding.
- An request-level scheduler aiming to maximize SLO attainment across diverse tasks.
- 10k lines of code in C++/CUDA.

## SELECTED AWARDS

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Outstanding Bachelor Thesis in Tongji University (top 0.5%)	2025
SOSP Student Scholarship	2024
Tongji University Lu Hao Scholarship	2024
National 1 <sup>st</sup> Prize (top 0.55%) in Contemporary Undergraduate Mathematical Contest in Modeling	2023
Regional 1 <sup>st</sup> Prize in Contemporary Undergraduate Mathematical Contest in Modeling	2023
China National Scholarship (top 0.2%)	2022
Regional 2 <sup>nd</sup> Prize in Contemporary Undergraduate Mathematical Contest in Modeling	2022
1 <sup>st</sup> Prize of National Olympiad in Informatics in Provinces	2019