

# Junyi(Kyle) Shu

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## EDUCATION

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### Peking University

*Ph.D. in Computer Software and Theory*

Beijing, China

Sep 2021 - Jun 2025

- Advised by Prof. Xin Jin
- Dissertation: Performance Optimization towards Disaggregated Cloud Storage Systems (Outstanding Dissertation Award)

### Peking University

*Master of Engineering Management*

Beijing, China

Sep 2019 - Jul 2021

- Advised by Prof. Xiangqun Chen
- Received the Outstanding Graduation Thesis Award.

### University of California at Berkeley

*B.A. in Applied Mathematics and Computer Science*

Berkeley, CA, USA

Aug 2010 - Dec 2013

- Graduated with distinction, and was on Dean's List for several times.
- Member of Upsilon Pi Epsilon (UPE), honor society for the computing and information disciplines.

## PUBLICATIONS

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**Junyi Shu**, Xiaolong Huang, Gang Huang, Hong Mei, Xuanzhe Liu, and Xin Jin. Serverless Replication of Dynamic Objects across Regions and Clouds. Under review.

**Junyi Shu**, Kun Qian, Ennan Zhai, Xuanzhe Liu, and Xin Jin. Burstable Cloud Block Storage with Data Processing Units. In *18th USENIX Symposium on Operating Systems Design and Implementation (OSDI 24)*, pages 783–799, Santa Clara, CA, July 2024. USENIX Association.

**Junyi Shu**, Ruidong Zhu, Yun Ma, Gang Huang, Hong Mei, Xuanzhe Liu, and Xin Jin. Disaggregated RAID Storage in Modern Datacenters. In *Proceedings of the 28th ACM International Conference on Architectural Support for Programming Languages and Operating Systems, Volume 3*, ASPLOS 2023, page 147–163, New York, NY, USA, 2023. Association for Computing Machinery.

**Junyi Shu**, Xin Jin, Yun Ma, Xuanzhe Liu, and Gang Huang. Cost-effective data analytics across multiple cloud regions. In *Proceedings of the SIGCOMM '21 Poster and Demo Sessions*, SIGCOMM '21, page 1–3, New York, NY, USA, 2021. Association for Computing Machinery.

## SERVICES

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- **Conference Reviewer:** ACM European Conference on Computer Systems Shadow PC (2025)
- **Journal Reviewer:** ACM Transactions on Storage (2024)

## EXPERIENCE

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### Alibaba Cloud

*Research Intern*

Beijing, China

May 2023 – Jul 2024

- Designed and developed a software module that supports burstable I/Os while limiting tenant interference.

### Amazon Web Services

*Software Development Engineer*

Seattle, WA, USA

Feb 2014 – Aug 2015

- Built a high-performance, scalable, transactional distributed database with fellow team members.

**Amazon Instant Video****Seattle, WA, USA***Software Development Engineer Intern**Jun 2013 – Aug 2013*

- Explored available metrics for evaluation video quality and developed a library to extract them.