

# Junyi(Kyle) Shu

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## INTERESTS

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Large-scale distributed systems, hardware-software co-design, with focus on cloud storage systems.

## EDUCATION

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### Peking University

*Ph.D. in Computer Software and Theory*

- Co-advised by Prof. Hong Mei and Prof. Xin Jin

**Beijing, China**

*Expected Graduation: July 2025*

### Peking University

*Master of Engineering Management*

- Advised by Prof. Xiangqun Chen

- Thesis: Design and Implementation of a Confidential Computing Framework Based on Trusted Execution Environment (Excellent Graduation Thesis)

**Beijing, China**

*Sep 2019 - July 2021*

### University of California at Berkeley

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

- Graduated with distinction (GPA 3.75/4.0), and was on Dean's List for several times.

- Member of Upsilon Pi Epsilon (UPE), honor society for the computing and information disciplines.

**Berkeley, CA, USA**

*Aug 2010 - Dec 2013*

## EXPERIENCE

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### Huaxuan Topsoft

*VP of Engineering*

- Led the engineering effort of a few projects in areas such as FinTech and Digital Transformation.

**Beijing, China**

*Jan 2019 - Sep 2020*

### China Telecom Bestpay

*Product Manager*

- Launched new features related to wealth management in one of the top payment APPs in China.

- Worked with fellow team members and raised Series A funding of ~1B CNY.

**Beijing, China**

*Apr 2017 - Dec 2018*

### China Tower

*Senior Software Developer*

- Led the effort to design and realize Data Warehouse for the largest telecommunication infrastructure provider in the world.

**Beijing, China**

*Sep 2015 - Mar 2017*

### Amazon Web Services

*Software Development Engineer*

- Worked with fellow team members to build a performant, scalable, transactional distributed database based on DynamoDB, and led the re-design of product subscription system on that.

- Rated as Outstanding in annual review, mentored summer interns and new employees.

**Seattle, WA, USA**

*Feb 2014 - Aug 2015*

### Amazon Instant Video

*Software Development Engineer Intern*

- Explored available metrics for evaluation video quality and developed a library for extracting respective metrics (integrated into production encoding workflows)

**Seattle, WA, USA**

*Jun 2013 - Aug 2013*

## PUBLICATIONS

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**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 Implementa-*

tion (*OSDI 24*), Santa Clara, CA, July 2024. USENIX Association. To appear.

**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.

## **ADDITIONAL**

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- **Programming Languages:** Java, C/C++, Python, Bash (ordered by proficiency)
- **Languages:** Mandarin Chinese (native), English (fluent)