

# Jun Kong

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Website: [Homepage](#) [Github](#)

## RESEARCH INTERESTS

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- Operating System
- Distributed System

## EDUCATIONS

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### Lanzhou University

Bachelor of Engineering in Computer Science and Technology

**GPA:** Average Score 85/100 (Top 10%)

**Key Courses:** Operating Systems, Compiler Principles, Computer Network, Computer Organization

Lanzhou, China

SEP 2019 - JUN 2023

## PROJECT EXPERIENCE

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### LZU OS: A 64-bit teach-oriented OS kernel running on RISC-V

NOV 2020 - APR 2022

*Project at School of Information Science and Engineering, Lanzhou University, Advised by Associate Prof. Li Liu*

- Wrote code of device tree, inline assembly, virtual memory, process management, memory allocator.
- Ported buddy-system allocator and SLAB allocator from Linux 2.6 to this system. [LINK](#)
- Wrote tutorials to teach how to write an OS step by step.
- Won the Award of excellence of China National College Student Computer System Ability Contest 2021.

### Design a RISC-V CPU using chisel HDL

JUN 2021 - MAR 2022

*Project at School of Information Science and Engineering, Lanzhou University, Advised by Associate Prof. Anping He*

- Designed a two-stage pipelined RISC-V CPU and completed simulation.
- Gained an understanding of how the CPU works and discovered interest in RISC-V and system research.

## INTERNSHIP EXPERIENCE

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### [Megvii Technology](#)

JUN 2022 - OCT 2022

*Software Development Intern*

I worked on a cloud-native orchestration and package management system based on the Megvii cloud platform.

- Added support for OCI(*Open Container Initiative*) standard and transformed packages to OCI artifact format.

## WORK EXPERIENCE

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### [Megvii Technology](#)

JUN 2023 - PRESENCE

*Software Development Engineer*

I am working on large-scale storage system at [MEGVII Brain++](#)(A leading AI productivity platform), including object storage system and small-file accelerating system.

### Overlay: Megvii's Object Storage System

*An object storage system based on LSM-Tree with more than 100 PiB data in production environment.*

- Improved stability by fixing some severe bugs, such as system hang caused by problematic heartbeats.
- Provided efficient maintenance and on-call support.

### Nori: small-file accelerating system for AI

*An small-file accelerating system, which is widely used in machine learning at the Megvii Research.*

- Introduced priority scheduling and improved the quality of service and fairness.
- Redesigned database access patterns and significantly improved TPS.
- Provided efficient maintenance and on-call support.

## AWARDS AND HONORS

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- Lanzhou University Outstanding Graduation Thesis Award [LINK](#)
- The China National College Student Computer System Ability Contest 2021, Award of excellence
- Lanzhou University Second-Class Scholarship
- Lanzhou University First-Class Scholarship

## SKILLS

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- Proficient in C, Python, Go and Bash.
- Experienced in Kubernetes.
- Familiar with OS development.