

# An Zhong

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## EDUCATION

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### Jilin University

*B.S. in Computer Science and Technology*

Changchun, China

*Sep.2021 - July 2025(expected)*

- **Overall GPA:** 3.86/4.00 **Rank:** 5/374
- **Core Courses:** Computer Architecture (93), Operating System(91), Microcomputer System (96.7), Compiler Principle and Implementation(92.3), Computer Control of Technology (97), Foundation of Artificial Intelligence (100), Fundamentals of Programming(94), Probability and Statistics A(97)

## RESEARCH EXPERIENCE

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### Acceleration of microarchitecture-level fault injection process for GPUs

*Sep.2023 - April 2024*

*Research Intern*

*Advisor: Jingweijia Tan, Jilin University & Guanpeng Li, University of Iowa*

- Revealed the relationship between early fault behaviors with final fault outcomes.
- Proposed a fast and accurate error resilience evaluation framework GEREM for GPU microarchitecture.

### Software Simulation and Hardware Alignment with O3 CPU Pipeline Implementation

*Sep.2024 - Dec 2024*

*Research Intern*

*Advisor: Jian Weng, KAUST*

- Conducted a literature review to identify challenges in cycle-accurate simulation and hardware alignment.
- Implemented an out-of-order CPU pipeline using a unified programming framework, achieving precise alignment between simulation and RTL.

## PROJECTS

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### Estrus Detection in Beef Cattle via Multimodal Learning

*Oct.2022 - May 2023*

*National College Student Innovation Training Program*

*Advisor: Hui Kang, Jilin University*

- Reviewed multimodal learning approaches for binary classification and latest approaches for estrus detection.
- Designed a model using both behavioral data and image inputs for accurate estrus identification.

### Enabling Software Compatibility on Domestic Operating Systems

*Jan.2024 - April 2024*

*cooperative project with Zhongke Fangde Software Co., Ltd.*

*Advisor: Huaxiao Liu, Jilin University*

- Collaborated in the adaptation of open-source software on domestic OS.
- Developed RPM SPEC files and conducted build tests with Koji, ensuring cross-platform compatibility.

## PUBLICATIONS

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### GEREM: Fast and Precise Error Resilience Assessment for GPU Microarchitectures

Jingweijia Tan\*, Xurui Li, **An Zhong**, Kaige Yan, Xiaohui Wei, Guanpeng Li

*IEEE Transactions on Parallel and Distributed Systems, 2024 (CCF-A), Under Major Revision*

## Honors and Awards

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- National Inspirational Scholarship (¥5000) 2022
- Outstanding Student of the University (Top 5%) 2022, 2023, 2024
- Provincial First Prize, National College Student Mathematical Modeling Competition (Top 10%) 2022
- Second Prize, Huawei Software Elite Challenge (Beijing-Hebei Northeast Division) 2023
- Huawei Scholarship Nominee (Top 5 in the University) 2024

## SKILLS

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- **Programming:** C, C++, Python, Shell, SQL, CUDA