Zili Zhang

COMPUTER SYSTEM LEARNER

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Education

School of Electronics Engineering and Computer Science, Peking University *Beijing, China*

B.S. IN COMPUTER SCIENCE AND ENGINEERING *Sep. 2019 - Jul. 2023*

- Overall GPA: 3.71/4.00 (top 9%)
- Core Courses: Introduction to Computation (94), Advanced Algebra(93, 89), Mathematical Analysis(87.5, 93), Introduction to Artificial Intelligence(90), Set Theory and Graph Theory(92), Software Engineering (Honor Track 93), Algorithm Design and Analysis(92), Operating Systems (Honor Track 84)

Experience

SAAS research lab, PKU. *Beijing, China*

RESEARCH ASSISTANT *Oct. 2020 - Present*

- Topic: AI system and Big Data system
- Advisor: Prof. Xin Jin

ByteDance Inc. *Beijing, China*

RESEARCH INTERN OF DEEP LEARNING COMPILER *Jun. 2021 - Sep. 2021*

- Optimization for TVM compiler Runtime.
- Deploy a machine translation model online.

Moqi. *Beijing, China*

RESEARCH INTERN OF VECTOR SEARCH ENGINE *Oct. 2021 - Present*

- Optimization for Faiss search runtime and hardware backend.

Publications AND Preprints

Rise of Distributed Training: From Developer's Perspective -

PREPRINT *Mar. 2021*

- Diandian Gu, Zhenpeng Chen, **Zili Zhang**, Yuanqiang Liu, Yun Ma, Haoyu Wang, Xin Jin, Xuanzhe Liu

Transparent GPU Sharing in Container Clouds for Deep Learning Training -

PREPRINT *Jul. 2021*

- Bingyang Wu, **Zili Zhang**, Zhihao Bai, Xuanzhe Liu, Xin Jin

Fast, Approximate Vector Queries on Very Large Unstructured Datasets -

PREPRINT *Mar. 2022*

- **Zili Zhang**, Chao Jin, Linpeng Tang, Xuanzhe Liu, Xin Jin

Optimizing Half Precision Winograd Convolution on ARM Many-Core Processors *Online*

ACCEPTED BY APSYS 2022 *Aug. 2022*

- Dedong Xie, Zhen Jia, **Zili Zhang**, Xin Jin

Teaching Experience

Introduction to Computer Systems *Peking University*

TEACHING ASSISTANT *Fall 2021*

- Corrected students' homework and assisted teachers in the examination paper.
- Organized the seminar and prepared topics for discussion.

Honors & Awards

DOMESTIC

2021	**Third Prize**, Peking University Award	*Peking University*
2021	**Learning Excellence Award**, Peking University Award	*Peking University*
2022	**Outstanding Research Award**, Peking University Award	*Peking University*

Skills

DevOps	AWS, Docker, Kubernetes, Tensorflow, Pytorch, TVM, Faiss, TensorRT, Git
Writting	MarkDown, Latex, Matplotlib, Office
Programming	C/C++, Cuda, Python, Node.js, Go
Languages	Chinese(Native), English