

Juyi Lin

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Hangzhou, Zhejiang Province 310027

EDUCATION

Zhejiang University
Wenzhou Longwan High School

Sept. 2018—est. June. 2022
Sept. 2015—June. 2018

ACADEMIC PERFORMANCE

Zhejiang University
Electronic Engineering

- **GPA:** 3.86/4, 87.62/100 overall, 88.8/100 major

- **Rank**

- 8/78, among major students

- **Course Performance**

Signal and systems (99), Design Experiment of Intelligent Mobile System(94), Data Communications and Computer Networks(94), Data Structure and Database Technique(94), Integrate Practice for Courses (93), Linear Algebra (90), Digital System Design and Experiment(91) Micro-controller principle and Application(92), Understanding Internship(95)

EXPERIENCES

Research Assistant

The University of Hong Kong

July 2021 — Present

- Under the supervision of Professor C. Wu, with the main research direction being the resource allocation and device placement for Deep Learning Clusters.
- Implemented resource allocation experiment. Using deep reinforcement learning to implement resource allocation and evaluation. Calculate the communication time in PS and Allreduce architecture. Extract data from the trace for fitting the training speed function.

Research Lab for Computer Architecture

Zhejiang University.

Sept. 2020 — Present

- Participated in the research on the laboratory architecture of Professor Bu Kai, College of Computer Science and Technology, Zhejiang University, with the main research direction being the acceleration of Transaction Memory.
- Implemented *gem5 experiment*. Using gem5 to simulate the connection between cache and memory

HONORS & CERTIFICATIONS

Second-Class Scholarship of Zhejiang University

No more than 8% students awarded

Zhejiang University

2020

The Chinese College Students Mathematics Competitions

Preliminary Second Prize

Zhejiang University

2019

(National Computer Rank Examination) certificate, C language, Rank II.

good

Zhejiang University

2019

ByteDance Summer Camp

rank 2/32, quantify the contribution of each memory optimization to the training large model, train the maximal value of the parameters(15billion) of the single machine eight GPU training model.

ByteDance

Aug 2021

COURSES

• Data Communications and Computer Networks • Artificial Intelligence • Fundamentals of Data Structures • Computer Organization and Architecture • Java Application Design • Introduction to Computing Systems(Yale Patt) • Wireless and Mobile IoT: Algorithms and Applications (UIUC summer online course 2020) • Integrate Practice for Courses (C++ Project management and engineering practice) • Digital Image Process

SKILLS

Programming Languages (frequently used): Python, Java, C,Bash,matlab

Programming Languages (used when needed): C++ , SQL

Tools: git, \LaTeX

Libraries/Frameworks: Pytorch, DeepSpeed, Gem5