

Juyi Lin

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EDUCATION

**Zhejiang University Electronic Engineering
Wenzhou Longwan High School**

Sept. 2018—est. June. 2022

Sept. 2015—June. 2018

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)

Honors & Certifications

Second-Class Scholarship of Zhejiang University 2020(No more than 8% students awarded) The Chinese College Students Mathematics Competitions 2019(Preliminary Second Prize)

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.

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

PROJECTS

ByteDance Summer Camp

ByteDance

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.

Aug 2021

RISC-V Processor

Zhejiang University

optimize the UCB RISC-V core data path, reduce hardware resources, and increase computing speed. Add mul instruction for CPU, the data path and control module are modified to improve the calculation performance. Design own benchmark and the results show that the speed is faster (the number of cycles is 1-2 orders of magnitude), the branch jumps are fewer, and the CPI is about 0.2 lower

2021

Java Server

Zhejiang University

Use javafx as UI, write simple server, realize online chat room, realize simple server and client sending according to jdbc database, implement group chat, private chat, login, register and other functions

Dec. 2020

Reinforcement learning Flappybird

Zhejiang University

Using the Q-learning algorithm, q table adjusts the Q value selection action. The bird can fly automatically, and the score is significantly higher than that of ordinary players.

2020

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, L^AT_EX

Libraries/Frameworks: Pytorch, DeepSpeed, Gem5