

# CHENLU MIAO

✉ clmiao@zju.edu.cn · ☎ (+86) 18888920826

## 🎓 EDUCATION

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**Zhejiang University** 2021 – 2024

M.S. in Computer Science and Technology, expected March 2024

**Zhejiang University** 2017 – 2021

B.S. in Computer Science and Technology

- Member of Pursuit Science Class (Computer Science), Chu Kochen Honors College
- Overall GPA: 3.97 / 4, 4.59 / 5, 91.4 / 100; Rank: 4 / 20

**Research Interests:** Computer Architecture and Hardware Security

## 📖 PUBLICATIONS

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### unXpec: Breaking Undo-based Safe Speculation

Mengming Li, **Chenlu Miao**, Yilong Yang, and Kai Bu

The 28th IEEE International Symposium on High-Performance Computer Architecture (HPCA), 2022

## 👤 EXPERIENCE

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**Alibaba Group.** Intelligent Information Business Group (Quark) Jun.2021 – Present

*Software Engineering Intern*

- Implemented feature management module for Feature Middle Platform.
- Fix and migrate codes.

**Computer Architecture.** Zhejiang University Sept.2021 – Present

*Teaching Assistant*

- Help students implement a RISC-V CPU using Verilog.

## </> PROJECTS

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### Pascal Compiler

C++, *Lex*, *Yacc*, *LLVM* collaborated with classmates

- A Pascal Compiler written in C++ with LLVM
- [https://github.com/miaochenlu/Pascal\\_Compiler](https://github.com/miaochenlu/Pascal_Compiler)

### Mini-Minecraft

C++, *OpenGL* collaborated with classmates

- The project was about implementing a Minecraft demo in C++ and OpenGL;
- In order to generate infinite, random map, Perlin noise was used.
- SQLite was used to record the changes of each map trunk.
- <https://github.com/Rasphino/mini-MineCraft>

### Tank Battle

Verilog, *FPGA* collaborated with classmates

- The project was about implementing a Tank Battle game in Verilog on FPGA board.
- [https://github.com/miaochenlu/Tank\\_Battle](https://github.com/miaochenlu/Tank_Battle)

## ⚙ SKILLS

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- Programming Languages: C/C++ > Python > Verilog
- Tools: Gem5, Docker, Git

## ♡ HONORS AND AWARDS

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<i>First Prize</i> for Fundamental Research Scholarship of Qiushi Honor's Program	2018&2019&2020
<i>First Prize</i> for Zhejiang University Scholarship	2020

## ℹ MISCELLANEOUS

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- Blog: <https://miaochenlu.github.io/>
- GitHub: <https://github.com/miaochenlu>