

# YONGZHOU YAO

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## 🎓 EDUCATION

**University of Chinese Academy of Sciences, Beijing, China** 2022.9 – Present

B.S. Computer Science and Technology

- GPA:3.78/4.0
- Rank:23/79
- Specialized courses: Object-oriented Software Design and Construction(96), Lab of Computer Networking(90), AI Computing Systems(89), Computer Architecture Lab(88)

## 🔧 RESEARCH EXPERIENCE

**Computer Architecture Lab** Fall 2024

*Seminar* Group Collaboration

Design of a complex pipeline processor based on Loongarch.

- Implemented control state registers, supporting exception handling.
- Supported SRAM-like bus.
- Supported TLB and related exception handling.
- Supported ICache and DCache.

**Introduction to Machine Learning** Fall 2024

*Elective Course* Group Collaboration

2022 CCF BDCI Prediction of Returning Population

- Used ensemble learning methods, including LightGBM, XGBoost, and CatBoost, to complete the classification task.

**Object-oriented Software Design and Construction** Fall 2024

*Elective Course* Individual Project

Open-source project analysis

- Chose the open-source project Duck DB, with approximately 16,000 lines of code.
- Conducted independent research and use Cppdepend for static code analysis.

## ⚙️ TECHNICAL SKILLS

- Programming Languages: C, Python, C++, Java, Verilog
- OS: Linux, MacOS
- Tools: Git, L<sup>A</sup>T<sub>E</sub>X, Docker

## ♥️ AWARDS

*Second-class Academic Scholarship* 2023

*Outstanding Student Cadre* 2023

*Triple-A Student* 2023,2024

## 📰 PUBLIC AFFAIRS

*Officer of the Propaganda Center, Undergraduate Student Union, UCAS* Aug.2023 - Aug.2024

*League branch secretary, Class 2208* Sep.2023 - Sep.2024