Yixing Chen

github.com/PolarisDane ✉ polaris_dane@sjtu.edu.cn

EDUCATION

Shanghai Jiao Tong University   Shanghai China
Bachelor of Computer Science   *Sept. 2022 - Present*
- Member of ACM Honor Class, an elite CS program for top talented students
- **Ranking: 12/37, GPA: 3.9/4.3**

RESEARCH INTEREST

- I'm interested in designing efficient robot learning system, reinforcement learning and imitation learning.

EXPERIENCE

Machine Vision and Intelligence Group   Shanghai, China
Research Assistant, advised by Prof. Cewu Lu and Prof. Yonglu Li   *June. 2024 - Present*
Research Topic: Dexterous hands manipulation, Imitation learning, and Reinforcement learning.

Shanghai Jiao Tong University   Shanghai, China
Undergraduate Researcher, advised by Prof. Yong Yu   *Sept. 2022 - June. 2026(expected)*

PROJECTS

Compiler for Mx Language | *Java*
A ANTLR-4 based compiler that translates Mx* language (which is a C++ and Java like language) into RV32I Assembly. Designed based on LLVM IR and many optimizations are added for better performance.

RISC-V Tomasulo CPU | *Verilog*
A Tomasulo structure RISC-V CPU with 1-cycle ICache. Successfully generated bitstream with Vivado and programmed onto FPGA board.

Rust Kernel | *Rust*
A toy operating system kernel implemented in Rust with privileged mode according to RISC-V specification, process scheduler, etc.

SOCKS5 Proxy | *Golang*
A internet server that acts as a SOCKS5 proxy under TCP and UDP protocols. TLS hijack also implemented under trusted certificate.

An Efficient Algorithm for Semi-supervised Learning | *Python*
An algorithm for semi-supervised learning with 20% improved performance compared to traditional mean teacher method and accelerated with a designed module. The project was awarded one of the best papers in the course (2nd place).

HONORS & AWARDS

Scholarship
- 2022, 2023, 2024 Zhiyuan Honorary Scholarship (**Top 2%** in SJTU)
- 2023 Academic Excellence Scholarship

Awards
- 2024 MCM/ICM Meritorious Award

TEACHING EXPERIENCE

Data Structure
Teaching Assistant of Professor Huiyu Weng   *Feb. 2023 - Present*
Computer Programming
Teaching Assistant of Professor Huiyu Weng   *Sept. 2023 - Jan. 2024*

Skills

Programming Languages: C++, Python, Java, Rust, Golang, Verilog
Language: Mandarain (native), English (EPT: Top 10 in SJTU. TOEFL: 111, R 30, L 30, S 24, W 27)

Hobbies

Soccer, Basketball, Jogging, Reading