

Linyu Wu

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EDUCATION

Shanghai Jiao Tong University

Shanghai, China

Bachelor in Computer Science

Sep. 2021 - Present

- A member of ACM Honored Class, an elite CS program for the top 5% talented students.

RESEARCH INTERESTS

I'm interested in building efficient, reliable, and scalable computer systems.

Currently working on federated query processing for heterogeneous RDBMSes.

EXPERIENCE

Analytical DataBase Lab

University at Buffalo

Research Intern

Sep. 2023 - Present

- Work on federated query processing, advised by Prof. Zhuoyue Zhao and Prof. Xie Dong.

Apex Lab

Shanghai Jiao Tong University

Research Intern

Aug. 2023 - Present

- Work on LLM deployment optimization with TVM, advised by Dr. Siyuan Feng.

PERSONAL PROJECTS

File Synchronizer

🌀 [Celve/rfsync](#)

Async Rust

Jul. 2023 - Aug. 2023

- A real-time file synchronizer based on async Rust.

OS Kernel

🌀 [Celve/recore](#)

Rust

Feb. 2023 - Jul. 2023

- A toy Rust-written OS kernel written with 10k+ lines of code, which supports SMP, virtual memory, file system, virtio, and more.

Compiler

🌀 [Celve/meteor](#)

Kotlin

Sep. 2022 - Jan. 2023

- A compiler for Mx*, a C-and-Java-like programming language with 15k+ lines of codes, with performance surpass LLVM O2 in most test cases.

RISC-V CPU

🌀 [Celve/resin](#)

Verilog

Oct. 2022 - Nov. 2022

- A RISC-V CPU that supports RV32I Base Integer instruction Set V2.0 (2.1-2.7), based on Tomasulo and written in Verilog.

Shard KV

Go

Jul. 2022 - Aug. 2022

- A shard kv database based on extended Raft paper.

SKILLS

- **Programming Language: multilingual**, especially experienced in Rust, comfortable with C++, Kotlin, Go, Python, and Java.
- **Database**: experienced with Calcite framework, familiar with Postgres, MariaDB, and SQL.
- **Mlsys**: familiar with TVM and MLC-LLM.