

DZMING LI

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SELF INTRODUCTION

I am an undergraduate student majoring in Cyber Science and Engineering at HUST. I am interested in **Programming Languages** (compilers, type theory, functional programming) and **high-performance systems programming**. Proficient in Rust, OCaml, and C++, with hands-on experience in compiler backend optimization. Long-time Linux user with a passion for system-level tooling.

EDUCATION

Cryptographic Science and Technology (Undergraduate)

Huazhong University of Science and Technology

Wuhan, China

June 2027

PROFESSIONAL EXPERIENCE

Compiler Development Intern

PLCT Lab, Institute of Software, Chinese Academy of Sciences

August 2025 - November 2025

- Collaborated with the IDEA Research Institute to port the MoonBit language to RISC-V, using OCaml.
- Implemented key backend features: switch lowering (string/bytes via memcmp), Result return codegen, short-circuit logical operators, and register allocation improvements.
- Led upstream merge (50+ conflicts), maintaining a hybrid RISC-V + WASM compilation pipeline.
- Set up Nix Flake for reproducible builds and authored regression test suites.

PERSONAL PROJECTS

Fedi-Xanadu

Rust, AT Protocol

January 2026 - Present

- A federated knowledge-sharing platform built in Rust with an async architecture (Axum/Tokio).
- Implements a DAG-based recommendation algorithm that matches content to users by computing prerequisite coverage over a community-driven skill tree.
- Features a distributed data synchronization layer via AT Protocol and a patch-based content versioning system powered by libpijul.
- Designed for self-hosted deployment with embedded search (Tantivy) and storage (SQLite).

EXTRACURRICULAR ACTIVITIES

Member, Academic Department

HUST Linux User Group

September 2024 - June 2027

- Maintained and administered the association's Linux servers, including ShareLaTeX and Jellyfin services.
- Gave multiple talks on Linux-related technologies including Nix & NixOS, Pijul, and AT Protocol.

SKILLS

Programming Languages:

- **Proficient:** Rust, OCaml, C++
- **Familiar:** Python, Haskell, Java, SML

Linux: Nix, Nushell, CI/CD

Typesetting: LaTeX, Typst

Version Control: Git, Pijul