

陈昱宁 (YuNing Chen)

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Education

- **South China Normal University**

2021/09 – 2025/06

Network Engineering

- ▶ The only undergraduate **Teaching Assistant** for Operating System Project Class (Fall 2023): Assisted in answering questions and improving the project documentation (adapted from MIT 6.S081 Lab).

Skills

- **Core Skills**

- ▶ **Low-Level Programming:** Possess comprehensive understanding of both hardware and software, capable of writing CPU-friendly, cache-efficiency code.
- ▶ **Algorithms and Data Structures:** Mastered the time and spatial complexity, skilled in writing efficient code.
- ▶ **Functional Programming:** Confident in working with common paradigms such as FP, OOP and Imperative Programming.
- ▶ **Self Learning Ability:** Proficient in Googling, asking and answering questions. Possess a fast learning pace.

- **Soft Skills:**

- ▶ Testing, Logging, Profiling, Debugging, Abstracting and Collaborating
- ▶ Experienced with Git/GitHub workflow (Rebase, Cherry-Pick, etc.) and Conventional Commit.
- ▶ Proficient in English (CET6 577), with extensive reading of English books, docs and blogs.
- ▶ Mastered Linux usage, configuration, and management. Skilled in container management with Docker.

- **Languages and Libraries (including but not limited to):**

- ▶ Languages: C/C++, TS/JS, Go, OCaml, Rust, Assembly...
- ▶ Databases: SQLite, PostgreSQL, MySQL, MongoDB...
- ▶ Libraries:
 - Golang: gorm, gin, zap...
 - C++: CMake, GoogleTest, GoogleBenchmark, nlohmann/json...

Projects

- [Telegram Bot for Memos](#)

112 ★

- ▶ A Telegram Bot for the [memos project](#), widely used, and also contributed to the memos project itself.

- [Search Obsidian in Google](#)

30 ★

- ▶ A combination of an [Obsidian](#) plugin and browser extension used to search Obsidian notes on Google.

- [SysY Compiler](#)

- ▶ A SysY compiler written in Rust that compiles SysY language to RISC-V assembly, passing all public test cases provided by [Peking University](#). Made it to the final of the Huawei Cup Compiler Competition.

- [MoonBit Standard Library](#)

- ▶ The standard library for the MoonBit programming language, contributed various data structures and algorithms.

- [More Contributions on GitHub...](#)

- Numerous course projects that aren't suitable for public access on GitHub, including but not limited to:

- ▶ CMU 15-213 CS:APP Labs
- ▶ CMU 15-445 Database Labs (Bustub)
- ▶ MIT 6.S081 OS Labs (XV6)
- ▶ Stanford CS144 Networking Labs (TCP Implementation)

Experiences

- **MoonBit Programming Language Developer Intern**

2024/05 – Now

@ International Digital Economy Academy

Responsible for the development of the MoonBit programming language.

- Improved the standard library for MoonBit, including high-quality random number generation, hash optimization, Iter implementation, Unicode Conversion, Json Parsing, etc.
- Enhanced the MoonBit compiler with features such as ConstFolding, BitwiseOp, IterRangeOp, and Intrinsic additions and fixes.

- **Turing Class, SCNU**

2021/09 – Now

A self-motivated, unofficial discussion group covering topics like Mathematics (MIT 18.06, 18.01, 18.02), Algorithms and Data Structures (CLRS), Operating Systems (CSAPP, OSTEP), Theory of Computing (MIT 18.404), etc.

- As an active member, organized multiple discussions and delivered several presentations.
- Mentored freshmen in Linear Algebra, C programming, and CS 61A, enabled them ask high-quality questions.