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:*** Understands both hardware and software, proficient in writing concurrent and cache-friendly code.
  - ***Algorithms and Data Structures:*** Mastered the time and spatial complexity, skilled in writing efficient code.
  - ***Functional Programming:*** Familiar with common paradigms such as FP, OOP, Declarative and Procedure.
  - ***Self Learning Ability:*** Proficient in Googling, asking and answering questions. Possess a fast learning pace.
- **Soft Skills:**
  - Testing, Logging, Profiling, Debugging, Abstracting and Collaborating
  - Git/GitHub workflow and conventional commit
  - Proficient in English (CET6 577).
  - Docker
  - Proxmox VE (Linux/Homelab)
    - Kubernetes (k3s)
    - Linux server configuration and management
- **Languages and Libraries:**
  - Languages: C/C++, TS/JS, Go, Python (include but not limited to)
  - Database: SQLite (my favourite), Postgresql, MongoDB…
  - Libraries:
    - TypeScript: Prisma, Next.js, Zod…
    - Golang: gorm, gin, zap…
    - C++: Cmake, Google Test, cpp-httplib, nlohmann/json
  - And many more.

Projects

- Telegram Bot for Memos 107 ⭐
  - A Python Telegram bot for the memos project, to which I also contributed.
  - Recommended by the memos project, archived after they have this feature built-in.
  - Wrapped in Docker, async python, with a OOP design.
- Search Obsidian in Google 27 ⭐
  - An Obsidian plugin and browser extension combination to search notes on Google.
  - Hit 5,000 install in 2 months without any promotion.
- More Contributions on GitHub…
- Numerous course projects that aren't suitable for public access on GitHub, include but not limited to
  - CMU 15-213 CS:APP Labs
  - CMU 15-445 Database Labs (Bustub)
  - MIT 6.S081 OS Labs (XV6)
  - Stanford Networking CS144 Labs (TCP Implementation)

Leadership and Involvement

- **Turing Class, SCNU**
  A self-motivated seminar, featuring great courses like Linear Algebra (MIT 18.06, 18.01, 18.02), Algorithms and Data Structure (CLRS), Operating System (CSAPP, OSTEP), Theory of Computing (MIT 18.404), and more…
  - As an active member, organized multiple discussions and presented multiple talks.
  - As a sophomore, mentored freshman linear algebra and C programming, enabling them to ask some high quality questions about programming.
  - Will continuously mentored freshman during my 3rd and 4th years of collage.