

Mingde Yang (David Yang)

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github.com/Silicon27

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17-year-old software developer based in Sweden, focused on systems programming and compiler design in C++.

Professional working experience

- **Box & Bottle** — Café Associate

Jun 2022 – Aug 2022 (incl. PRAO)

- Worked as barista, cashier, and dishwasher in a customer-facing environment.
- Managed point-of-sale transactions and maintained workflow during peak hours.
- Assisted in beverage preparation and daily operational tasks.

Selected Projects

- *Udo* - Modular language ecosystem composed of 3 interdependent repositories (core compiler, standard library, tooling). Implements lexical analysis, recursive descent parsing, symbol resolution, and custom bytecode generation.
- *si* - Partial reimplement of C++20 standard library components (containers, iterators, allocators), used across all personal compiler projects.
- *genda* - Python CLI utility for directory structure visualization (26k+ downloads via pip).

The above-mentioned and more may be accessed via github.com/Silicon27

Technical Highlights

- **Languages:** C++20/23 (primary), Python
- **Tools:** CMake, Git, LLVM

- **Languages (Spoken):** *English* (Fluent), *Swedish* (Fluent), *Chinese* (Fluent)

Education

- **Viktor Rydberg Campus Odenplan**
- Natural Sciences Programme | 2024 – Present (Expected graduation year: 2027)

- **IES Solna**
- Graduated 2024 — Technology Award Recipient