



# Meng-Shr Tsai 蔡孟師

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## Education

- **National Sun Yat-sen University (NSYSU)** **Kaohsiung City, Taiwan**  
*B.S. in computer science and engineering* *Sep 2018 – Jun 2022*

## Projects and Open-Source

- **Facebooc** **National Sun Yat-sen University (NSYSU)**  
*Member* *Apr 2022 – Jun 2022*
  - Use **GNU-makefile** to automate release/build.
  - Fix **memory leak** by improving the function interface.
  - <https://github.com/25077667/facebooc>
- **Meat-Freshment-Monitor-System** **National Sun Yat-sen University (NSYSU)**  
*Maintainer* *Jul 2021 – Jan 2022*
  - Introduce **OOP**, **RAII** to Arduino code, and reduce  $\frac{2}{3}$  of development time.
  - Introduce **clang-format**, **Git**, **GNU-makefile** to help automate and speed up development, as well as **xelatex** to writing report.
  - Improve **Arduino official library** (<https://github.com/tobiasschuerg/MH-Z-CO2-Sensors/pull/24>).
  - <https://github.com/meat-project/meat-freshment-monitor-system>
- **coc.nvim (22.7K stars)**  
*Contributor* *Sep 2022*
  - Getting start with a new programming language (lua) takes me about **1 week**.
  - Help **translate vim script to lua**, and **improve readability** of lua in documents.
  - <https://github.com/neoclide/coc.nvim>
- **meal-prep** **National Sun Yat-sen University (NSYSU)**  
*Author* *Jul 2020 – Present*
  - Use modern C++ feature like **Explicitly Defaulted and Deleted Functions**, **stl**, **range-based for loop**, **anonymous namespaces**.
  - Improve coding habits with **Clean Code**, and get 2 times faster than origin speed.
  - <https://github.com/CollieIsCute/meal-prep>
- **My Blog**  
*Author* *May 2022 – Present*
  - Use **Hugo** to render pages, and **Github Action** to deploy the blog.
  - Share some tricks of programming I learned in **Leetcode**.
  - <https://collieiscute.github.io/posts/leetcode/>

## Skills

- Programming
  - General: Modern C++(11 and 14 ~ 20, such as 'constexpr', 'iteration', 'Variadic Template'), C('function pointer', 'indirect pointer'), python3, Shell script, GNU-makefile
  - Others: Arduino(C++11), Git,  $\text{\LaTeX}$ , Markdown, nvim
- Languages
  - Native: Taiwan Mandarin, Taiwanese
  - Conversant: English (TOEIC 645)