

Ying-Chiao Chen

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Personal Statement

A dedicated student who has 3 years of coding experience, able to write programs to solve problems in life. A person interested in the field of network architectures, software development, and distributed systems. An employee with great potential to learn something new very quickly and apply it to current work. Also a adventurer who is not afraid of challenges and is willing to conquer them with his whole effort.

Education

NTU(National Taiwan University)

Taipei, Taiwan

B.S. IN ELECTRICAL AND ENGINEERING

Sep. 2018 - Now

- **CS Courses:** Computer programming, Computer Networking, Data Structures and Algorithm, Operating Systems, Computer Architectures, Database Systems, Embedded Systems, Distributed Systems, Blockchain and Cryptography and Network Security.
- **Misc:** Calculus, Discrete Mathematics, Engineering Mathematics, Logic Design, and Signals and Systems.

Skills

Programming Languages Go, Java, Python, C/C++, Javascript, SQL, Shell Script

Tools Git, Vim, Docker, Kubernetes, Linux

Misc VSCode, MySQL, MongoDB, Design Patterns, Some Word Processing Softwares

Languages Chinese(Native), English

Project

Apache Submarine

Taipei, Taiwan

APACHE SUBMARINE DEVELOPER

Aug. 2021 - Now

- Apache Submarine is an End-to-End Machine Learning Platform to allow data scientists to create end-to-end machine learning workflows.
- I'm contributing to submarine server and submarine operator.

Music Chain

Taipei, Taiwan

NMLAB FINAL PROJECT

Apr. 2021 - Jul. 2021

- A platform to make original and cover visible and valuable
- **Technologies:** IPFS, Essentia, Docker, Material UI, Solidity, React

Remote Game Controller

Taipei, Taiwan

ESLAB FINAL PROJECT

Apr. 2021 - Jun. 2021

- we have created an simple treasure hunting game played with motion control.
- We integrated several sensors in STM32 board with our own motion detection algorithm, object class wrapper and multi-threading techniques.
- **Technologies:** PyGame, WiFi, Bluetooth, STM32, MbedOS

Picture DB

Taipei, Taiwan

DBMS FINAL PROJECT

Apr. 2021 - Jun. 2021

- we propose a tag-based management system that can automatically update and guarantee the high quality data.
- **Technologies:** Python, MongoDB

Zhuyin password cracker

Taipei, Taiwan

CRYPTOGRAPHY AND NETWORK SECURITY FINAL PROJECT

Apr. 2020 - Jul. 2020

- Modifying the existing PCFG tool to crack the Zhuyin passwords more effectively and efficiently.
- Compared with other brute-force tool, this tool has a more at least 1% hit rate.

Honors & Awards

2021 **3rd Place**, Bachelor Thesis Award

Taipei, Taiwan

Extracurricular Activities

NTUEE Student's Association, Public Relations Department

Taipei, Taiwan

CORE MEMBER

Sep. 2018 - Jun. 2021

- Serving as the gateway between NTUEE students and outside.