Kuo, Nai-En

https://imgradually.github.io/ Mobile: +1(909)616-9505

**EDUCATION** 

University of California, San Diego

La Jolla, CA

Master of Science in Computer Science and Engineering; Incoming student

Sept. 2023 - Jun. 2025

Email: n1kuo@ucsd.edu

National Yang Ming Chiao Tung University

Hsinchu, Taiwan

Graduate study in Network Engineering; GPA: 4.25/4.3(Credit: 21)

Feb. 2021 - July. 2022

National Chiao Tung University

Hsinchu, Taiwan

Bechlor of Science in Computer Science; GPA: 3.67/4.3(Credit: 138)

Sept. 2017 - Jan. 2021

EXPERIENCE

Taiwan Semiconductor Manufacturing Company(TSMC)

Hsinchu, Taiwan

 $Software\ Engineer\ Intern$ 

July 4, 2022 - Sept. 2, 2022

- System migration: To migrate an existing system from virtual machine to Kubernetes.
- **Dispatcher program development**: To resolve existing problems that occurred in the production environment.

National Yang Ming Chiao Tung University

Hsinchu, Taiwan

Teaching Assistant

Oct. 2021 - June 2022

July 2020 - Jan. 2021

- o Applications of Machine Learning for Networking: Course Syllabus Link
- o Network Programming: Course Syllabus Link

DBS Bank, Taiwan

Taipei, Taiwan

Software Engineer Contractor

Output

Output

Duly 202

Real-time speech emotion recognition: To research for fraud detection and patent application.

- Talent Data Collector: To efficiently collect online talent data and generate user-friendly reports.
- Phone dialing Line Chatbot: To facilitate communication between the call center and IT department.

Competitions

2021 Mei-Chu Hackthon

Online

2nd place of Micron Technology, Team of 4: DuckBubi.

Oct. 23-24, 2021

AIS3 EOF CTF 2021

Taipei, Taiwan

Rank: 10 in Final round, Team of 4: TLSC.

Feb. 6-7, 2021

2021 Microsoft x TSMC IT CareerHack

Online

Work of my team of 4: https://github.com/wiiwu959/MR-Cooking-Emulator

Jan. 24-25, 2021

2020 ICPC Asia Taipei-Hsinchu Site Programming Contest

Taipei, Taiwan

Bronze medal, Team of 3: NCTU\_KokushiMusou

Nov. 07, 2020

2020 Mei-Chu Hackthon

Hsinchu, Taiwan

3rd place of Line Corp., Team of 4: 4Fun. https://github.com/taipeiyuka/line-liff-4FUN

Oct. 24-25, 2020

## Coursework Projects

- Multifunctional Aerial Gazer: I developed a Python-controlled drone capable of tracking face and gestures.
- SAT solver: I implemented a DPLL-based heuristic alogrithm with advanced features to solve SAT problem.
- P to RISC-V compiler: I built the compiler from scratch using lex, yacc, and C++.

## Programming Skills

- Languages: Python, C/C++, Java, Javascript, PHP, HTML/CSS, SQL, P4
- Technologies: Kubernetes, Git, Spring Boot, Azure, Unity, Linux, Docker, Google Cloud, AWS, Selenium, Qiskit

## Publication

• S.Y. Wang and N.E. Kuo. Using programmable p4 switches to reduce communication costs of parallel and distributed simulation: In 2022 IEEE Globecom, 2022.