Kuo, Nai-En

https://imgradually.github.io/

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

Job Experience

Taiwan Semiconductor Manufacturing Company(TSMC)

Hsinchu, Taiwan

Software Engineer Intern

July 4, 2022 - Sept 2, 2022

- System migration: I containerized and migrated an existing system from a virtual machine to Kubernetes.
- Job dispatcher: I designed a Java Spring Boot job dispatcher program, enhancing system efficiency, handling exceptions, and resolving halting situations. After a thorough CI/CD process with unit tests, it launched successfully to production, effectively mitigating worker machine idleness to precisely half or less.

DBS Bank, Taiwan

Taipei, Taiwan

Software Engineer Contractor

July 6, 2020 - Jan 31, 2021

- Real-time speech emotion recognition: I researched real-time speech emotion recognition using PyTorch and transfer learning techniques, with the aim of fraud detection and patent application.
- Talent Data Collector: In response to the engineer recruitment plan, I developed a talent data collection
 program using Python and Selenium to efficiently collect online data and generate user-friendly reports, effectively
 reducing the workload of our recruiters.
- Phone dialing Line Chatbot: Line is a popular instant messaging app in Taiwan. I developed a phone dialing Chatbot using Heroku and Twillio to facilitate communication between the call center and IT department, and to call the duty officer during emergencies.
- AWS Deepracer: We promoted AWS DeepRacer to all colleagues and encouraged participation in online training competitions. Moreover, I actively served as a staff member for DeepRacer physical races.

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 Jan 24-25,2021

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

Taipei, Taiwan

2020 ICPC Asia Taipei-Hsinchu Site Programming Contest

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, Qiskit