Thomas Wang

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Education

- **National Yang Ming Chiao Tung University** — Hsinchu, Taiwan
  Bachelor in Computer Science; GPA: 4.10/4.3 (Overall), 4.26/4.3 (Major) — *September 2019 - January 2023*
  Courses: *DS and OOP, Algorithm, Competitive Programming, Database, Operating System, Networking, Artificial Intelligence*
- **National Taiwan University** — Taipei, Taiwan
  Master in Computer Science — *July 2023 - Present*

Awards

- **Bronze Prize of The 2020/2021 ICPC Asia Taipei-Hsinchu Site Programming Contest** : Served as a representative of the NYCU Programming Challenging Contest Association.
- **Academic Achievements Award in 2019 Fall Semester**: Top 5 % in the class.
- **2021 Facebook Hacker Cup**: Advanced to round 2 and won the T-shirt.
- **2021 Google KickStart Round G**: 5th in Taiwan, 214th in all contestants.
- **2021 Google KickStart Round C**: 10th in Taiwan, 318th in all contestants.

Experiences

- **Trading Campaign Team, Appier** — Linux, Flask, Kubernete, Jenkins, Helm, CI/CD, DevOps
  Backend Engineer Intern — *March 2022 – July 2022*
  - Designed a full-stack platform with automated scripts that streamlined daily routines for users, including both frontend and backend components.
  - Proficiently grasped the software development process, utilizing tools such as Git version control.
  - Managed and maintained a Kubernetes cluster, utilizing Docker containers and Jenkins for CI/CD.
- **Geocoding Team, Microsoft** — C#, Python, Tensorflow, Bash
  Research and Development Intern — *July 2022 - December 2022*
  - Developed a customized NLP model to correct address misspellings within Bing Maps, improving the accuracy of search results.
  - Implemented comprehensive optimizations across the model pipeline connected to the live service, resulting in a significant reduction in latency.

Projects

- **Raspberry pi OS**: (Work in progress)
  - Implemented operating system kernels from scratch on an aarch64 board, demonstrating expertise in low-level systems programming.
  - Developed and integrated exception handling and interrupt mechanisms from EL0 to EL3, and designed memory management modules.
  - Validated the implementation of the operating system kernels using GDB and QEMU emulator tools to ensure robustness and functionality.
- **Credit and grade calculation platform for NYCU student**: (Stop to maintain)
  - Built frontend with HTML/CSS, Redux.js and used Firebase as backend for seamless data management.

Skills Summary

- **Languages**: C, C++, Python, Verilog, SQL, Bash, Assembly
- **Frameworks**: Flask, TensorFlow, Keras
- **Tools**: Kubernetes, Docker, Git, Helm, Jenkins, PostgreSQL, MySQL
- **Platforms**: Linux, Win, Raspberry