

Alfons Hwu

☎ (+886) 936-198-455 | ✉ alfons.cs04@g2.nctu.edu.tw | 🏠 <https://tinyurl.com/uz3mmp6> | 📱 Alfons0329 | 🌐 Alfons Hwu | 📧 Alfons0329

Summary

Major in CSIE NTU, Interested (but not limited) in ML/DL, Performance, Parallel/GPU Programming.

I consider myself a person who is responsible, efficient, easy to get along with. Positive thinking, fast and active learner endorse me.

Education

National Chiao Tung University

B.S. IN COMPUTER SCIENCE

Hsinchu, Taiwan

Sep. 2015 - Jun. 2019

- Graduation Project Advisor: Kwan-Wen Chen, Ph. D.
- Overall GPA: 3.83/4.0, Last 60: 3.93/4.0, Major: 3.91/4.0, Rank: 28/221 (Top12.6%)

National Taiwan University

M.S.-STUDENT IN COMPUTER SCIENCE AND INFORMATION ENGINEERING

Taipei, Taiwan

Sep. 2019 - Present

- Performance, Application and Security Lab (CSIE504). [Click here for homepage.](#)
- Thesis topic: TBD. Advisor: Shih-Hao Hung, Ph. D.
- Current GPA: 4.22/4.30, Rank: 25/158

Experience

MediaTek

SOFTWARE ENGINEERING INTERN

Hsinchu, Taiwan

Jun. 2018 - Aug. 2018

- Multimedia algorithm development engineer internship.
- Working on porting the image processing algorithm from high-level C++ to low-level embedded C, optimizing and writing analytical reports

Cadence Design Systems

SOFTWARE ENGINEERING INTERN

Hsinchu, Taiwan

Jul. 2020 - Sep. 2020

- Develop an algorithm to optimize part of the database size.
- Up to 16% space of such part is compressed, and without any deterioration in run-time in spite of the additional compression algorithm.
- Work with SVG-TW team to do software regression and version control together.

Awards & Honors

CURRICULAR

Gold Prize. Role as Team Leader

HACKNTU 2016

Taipei, Taiwan

Aug 21. 2016

- An eye-care sensor, notifying user to take rest, preventing myopia, along with some game-like feature to make it more interesting.
- As a leader, my tasks are to properly distribute the work to members, testing, igniting ideas, and finally present a briefing.
- [Click here for the onstage presentation by me.](#)

Two-time V-AWARD

MEDIA TEK TAIWAN

Hsinchu, Taiwan

Aug. 2018

- A monthly employee performance award by the Senior Department Manager and the Director.
- The analytical report is helpful to the department, which helps boosting the industrial-grade syntax checking and code deployment.

Dean's List

NATIONAL CHIAO TUNG UNIVERSITY

Hsinchu, Taiwan

Fall. 2018

- Ranked 3/69 throughout the (sub)class, with avg. being 92.25/100

AIS3 EOF CTF Finalist

INFORMATION SECURITY INCUBATION PROGRAM, MINISTRY OF EDUCATION

Taipei, Taiwan

February. 2020

- Ranked 21/82 in the preliminary round, advanced to national final
- [Click here for homepage, Writeup](#)

EXTRACURRICULAR

Sep. 2016 **4th in 400m Freestyle**, Mayor Cup Swimming Competition, University Group

Hsinchu, Taiwan

May. 2017 **1st in 200m Freestyle Relay**, Annual Swimming Competition, National Chiao Tung University

Hsinchu, Taiwan

May. 2018 **1st in 200m Medley Relay**, Annual Swimming Competition, National Chiao Tung University

Hsinchu, Taiwan

May. 2019 **2nd in 50m Butterfly**, Annual Swimming Competition, National Chiao Tung University

Hsinchu, Taiwan

Extracurricular Activities

Swimming Varsity Member

NATIONAL CHIAO TUNG UNIVERSITY

- Participated in two inter-collegiate swimming competitions.

Hsinchu, Taiwan

Sep. 2015 - Sep. 2016

Two-Time General Coordinator of Smart Transportation Hackathon

NATIONAL CHIAO TUNG UNIVERSITY

- Co-organize with my advisor, Prof. Kuan-Wen Chen aka (ITCIC 2018)
- Supervisory authorities: Dept of Information Technology, Ministry of Education, Taiwan
- Click here for homepage

Hsinchu, Taiwan

Jul. 2018 and Jan. 2019

Piano Club Member and Concert Photographer

NATIONAL CHIAO TUNG UNIVERSITY

- Click here for performance video

Hsinchu, Taiwan

Sep. 2016 - Jun. 2019

MEDShark Swimming Club Captain

NATIONAL TAIWAN UNIVERSITY

- An amateur swimming club based on medical school in NTU.
- Teach swimming skills for the newcomers.

Taipei, Taiwan

Sep. 2019 - Present

Skills

HARD SKILLS

Programming Languages	C, C++, Python, Shell Script, Makefile, MySQL, Verilog, GNU Debugger
Frameworks	ML: PyTorch, OpenCV. Parallel: CUDA, nsys, nsight, OpenCL, OpenMP Security: Pwntools
OS	Linux, macOS, Windows(including WSL)
Others	Windows Office / \LaTeX / macOS iWork, Adobe Premiere / Photoshop, Amateur Photography, Swimming-Coach License
Natural Languages	Chinese (Native), English (TOEIC 925/990, TOEFL 102/120), Japanese (JLPT N3), all on first attempt

SOFT SKILLS

Personality	Responsible, efficient, punctual, careful, calm, and easy to get along with.
Attitude	Positive, active, and strong desire to acknowledge things.