Alfons **Hwu**

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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 m fast learner and active endorse me.

Education

National Chiao Tung University   *Hsinchu, Taiwan*

B.S. IN COMPUTER SCIENCE   *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   *Taipei, Taiwan*

M.S.-STUDENT IN COMPUTER SCIENCE AND INFORMATION ENGINEERING   *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   *Hsinchu, Taiwan*

SOFTWARE ENGINEERING INTERN   *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   *Hsinchu, Taiwan*

SOFTWARE ENGINEERING INTERN   *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 deteriorate 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   *Taipei, Taiwan*

HACKNTU 2016   *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   *Hsinchu, Taiwan*

MEDIATEK 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   *Hsinchu, Taiwan*

NATIONAL TAIWAN UNIVERSITY   *Fall. 2018*

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

AIS3 EOF CTF Finalist   *Taipei, Taiwan*

INFORMATION SECURITY INCUBATION PROGRAM, MINISTRY OF EDUCATION   *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. 2018	**1st in 200m Freestyle 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   *Hsinchu, Taiwan*
NATIONAL CHIAO TUNG UNIVERSITY   *Sep. 2015 - Sep. 2016*
- Participated in two inter-collegiate swimming competitions.

Two-Time General Coordinator of Smart Transportation Hackathon   *Hsinchu, Taiwan*
NATIONAL CHIAO TUNG UNIVERSITY   *Jul. 2018 and Jan. 2019*
- 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

Piano Club Member and Concert Photographer   *Hsinchu, Taiwan*
NATIONAL CHIAO TUNG UNIVERSITY   *Sep. 2016 - Jun. 2019*
- 2 times onstage performance Click here for video

MEDShark Swimming Club Member   *Taipei, Taiwan*
NATIONAL TAIWAN UNIVERSITY   *Sep. 2019 - Present*
- An amateur swimming club based on medical school in NTU.

Skills

HARD SKILLS

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

SOFT SKILLS

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