

# Alfons Hwu

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## Summary

Major in CSIE NTU, Interested in AI, Security, Performance, Parallel Programming, and System-related Topics.  
Learned programming since Sep '15, with strong intention to learn new knowledge and enthusiasm to cooperate and work with others.  
I consider myself a person who is responsible, efficient, easy to get along with. Positive thinking and initiative are my endorsements.

## Education

### National Chiao Tung University

B.S. IN COMPUTER SCIENCE

*Hsinchu, Taiwan*

*Sep. 2015 - Jun. 2019*

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

### National Taiwan University

M.S. IN COMPUTER SCIENCE AND INFORMATION ENGINEERING

*Taipei, Taiwan*

*Sep. 2019 - Present*

- Performance, Application and Security Lab (CSIE504). [Click here for homepage.](#)
- Current GPA: 4.22/4.30, Rank: 25/158

## Experience

### MediaTek Taiwan

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

### ADLINK Taiwan

SOFTWARE ENGINEERING INTERN

*Taipei, Taiwan*

*Feb. 2020 - Jun. 2020*

- Checking the program vulnerabilities and automating it, analyzing the trade-off between performance and security.

## Awards & Honors

### CURRICULAR

#### Gold Prize. Role as Team Leader

HACKNTU 2016

*Taipei, Taiwan*

*Aug 21. 2016*

- An eye-care sensor, which notifies user to set a period to rest, preventing myopia, along with some game-like feature to make it more interesting.
- As a team leader, my tasks are to properly distribute the work to members, ignite ideas, testing, discussing, and finally present a briefing.
- [Click 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 TAIWAN 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. 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

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### 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 1 , homepage 2

*Hsinchu, Taiwan*

*Jul. 2018 and Jan. 2019*

### Piano Club Member and Concert Photographer

NATIONAL CHIAO TUNG UNIVERSITY

- 2 times onstage performance Click here for video

*Hsinchu, Taiwan*

*Sep. 2016 - Jun. 2019*

### MEDShark Swimming Club Member

NATIONAL TAIWAN UNIVERSITY

- An amateur swimming club based on medical school in NTU.

*Taipei, Taiwan*

*Sep. 2019 - Present*

## Skills

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### HARD SKILLS

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

### SOFT SKILLS

<b>Personality</b>	Responsible, efficient, punctual, careful, calm, and easy to get along with.
<b>Attitude</b>	Positive and active