

# Pin-Lun Hsu

FIRST PLACE WINNER OF FRAIG OPTIMIZATION CONTEST OF "DATA STRUCTURE OF PROGRAMMING" SPONSERED BY CADENCE

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## Education

### National Taiwan University (NTU)

Taipei, Taiwan

B.S. IN ELECTRICAL ENGINEERING

Sep. 2016 - Exp. Jun. 2020

- **GPA: 4.14/4.3, CS related: 4.3/4.3**
- **Dean's List Award** (2018 Spring)
- Teaching Assistant of **Signals and Systems** (2019 Spring) - Instructor: Prof. Lin-Shan Lee
- Selected courses: Data Structures and Algorithms, Data Structure and Programming, Introduction to Computer Networks, Switching Circuit and Logic Design, Computer Architecture, Electronics, Electronic Circuits, Electromagnetics, Signals and Systems

## Experience

### NVIDIA Technology

Taipei, Taiwan

DEEP LEARNING RESEARCH INTERN

Nov. 2019 - PRESENT

- Supervised by Dr. Colleen Ruan, we use deep learning method to generate DNA that specifically bind to a target protein.
- Devised the new model structure and improved the accuracy by 10%.

### Vision & Learning Lab, NTU

Taipei, Taiwan

UNDERGRADUATE RESEARCHER

Sep. 2018 - Jul. 2019

- Supervised by Prof. Yu-Chiang Frank Wang, I proposed a **state-of-the-art** unsupervised fisheye image rectification method
- **\*Pin-Lun Hsu**, \*Chun-Hao Chao, Hung-Yi Lee, Yu-Chiang Frank Wang. "Self-Supervised Deep Learning for Fisheye Image Rectification" (in submission to **IEEE ICASSP 2020**)[\*co-first authors]

### XiaoMi Technology

Beijing, China

SOFTWARE ENGINEER INTERN

Jul. 2018 - Aug. 2018

- Participated in open-source project **MACE** (3.7k stars on Github) which is a deep learning framework optimized for mobile platforms.
- Solved cross-platforms issues and my work is successfully merged into master branch and officially went online.

## Honors & Awards

- 2019 **WEN KUEI TSAO Scholarship**, Prestigious Scholarship in NTUEE
- 2019 **1500+ stars and 100+ followers on Github**, Active participant in open-source community
- 2019 **1st place at MeiChu Hackathon**, Built an AI-based system to help government manage air pollution
- 2018 **Dean's List Award**, Awarded per semester to the top 5 % students
- 2018 **1st Place in FRAIG competition**, "Data Structure and Programming" final project sponsored by **Cadence**
- 2018 **Best Creativity Award in MakeNTU**, Built a smart chair prototype that tackles bad sitting posture

## Open-Source Projects

### Life-commit

LIFE AS A GIT. COMMIT ON YOUR LIFE! [\[GITHUB LINK\]](#)

Jan. 2018

- **850 stars, Github-trending-repository**
- Life-Commit is a cli tool that allows you to build your own life branch using Terminal, also supporting the function to visualize local commits as a static webpage in one click.
- Selected as top-45 amazing node.js projects for 2018 on Medium.

### Never-Blink

BLINK AND LOSE. [\[GITHUB LINK\]](#)

Jun. 2019

- **650 stars, Github-trending-repository**
- A online game that you can randomly connect to a player around the world and challenge him/her for a game of no blinking.
- Hit the headline of **hackernews**.

### AAG-visualizer

AN ELEGANT VISUALIZER FOR AND-INVERTER GRAPH [\[GITHUB LINK\]](#)

Jan. 2018

- Because of the DSnP course, in order to debug, students are forced to consume time and paper graphing circuits from indecipherable aag files. To relief the situation, I made a online AAG-visualizer, which easily transforms the uploaded files into graphs.
- The project received a lot of praise from both course takers and Taiwan Frontend Club, with more than **75 stars** on Github.

# Activity

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## Director of Information Department

STUDENT ASSOCIATION OF NTU ELECTRICAL ENGINEERING

Sep. 2018 - Jun. 2019

- Lead a team of 20 to build, design and maintain software infrastructure systems that serves all our students in the department.
- Our members won 1st in software section and 2nd in hardware section at Meichu Hackathon.
- Create web game *Foop* for 2018 EEnight and io game *losEEr.io*, *frEEstyle.io* for 2018 2017 EEweek. [[Foop](#)] [[losEEr.io](#)] [[frEEstyle.io](#)]
- Lead projects *Course System*, *Student Association Website*, *NTUEE+* for the student association. [[Github organization](#)]
- Hold courses on frontend-development, server-management and algorithm for the members.

## President

NTUEE CAMP ELOLVE [[WEBSITE](#)]

Jun. 2019 - Jul. 2019

- NTUEE Camp is the most prestigious student camp in Taiwan with 120+ staff members.
- We welcome 120 high school students (selected from 1000+ applications) for intensive hacking company visiting (Google, Delta) and various group activities (dancing, drama performance)

# Skills

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<b>Languages</b>	Python, C++, Javascript, Verilog, MIPS, Shell scripting, Matlab
<b>Libraries/Toolkits</b>	PyTorch, Keras, Tensorflow, OpenCV, React, ExpressJS, MongoDB, NodeJS
<b>OS</b>	GNU/Linux (Ubuntu & Arch Linux), Mac OSX
<b>Other</b>	Git, $\LaTeX$