

# FANG-CHING CHEN

☎ 0956-111-827 ✧ ✉ fumchinchchen.me06@nctu.edu.tw ✧ 🌐 github.com/fumchin

## EDUCATION

---

### National Chiao Tung University

*Electrical and Computer Engineering*

Overall GPA 3.86/4.2

Sep. 2017 - Present

*Hsinchu, Taiwan*

### Taipei Municipal Jianguo High School

Sep. 2014 - Jun. 2017

*Taipei, Taiwan*

## PROJECTS

---

### Java Music Player

*In-Class Final Project*

Mar. 2020 - Present

*NCTU*

- A JavaFx program that can read, save, play, record and edit WAV files.
- Accomplished **graphic equalizer** that can edit frequency domain by implementing Hanning Windows, FFT, Filter, iFFT.
- Accomplished **chord identification** that can analyze chords in WAV files by implementing FFT, energy analysis and music theory.

### Autonomous Car Project

*Undergraduate Research*

*advised by Professor Cheng, Wen-Huang & Shuai, Hong-Han*

Jun. 2019 - Jun. 2020

*AIMMLab @NCTU*

- Studied and Reproduced results on the well-known paper in the field of **Trajectory Prediction**, including Social Gan, STGAT and Social Ways.
- Accomplished several AI achievements with **Jetbot, an open-source robot based on NVIDIA Jetson Nano**, such as collision avoidance, object following and road following.

## TECHNICAL SKILLS

---

### Languages

Mandarin(native), English(fluent, IELTS: Band 7/9)

### Programming

C, C++, C#, Java, Python, MySQL, Assembly Language

### Machine Learning

PyTorch/Keras/Numpy/Pandas/OpenCV implementation, ML knowledge

### Tools

Git, Microsoft WSL2, Linux (Operation), Jupyter Notebook, Anaconda

### Others

Communication Systems, Computer/Wireless Networks, Jetson Nano

## EXPERIENCE

---

### Undergraduate Intern Studnet

*Focused on Deep Learning, Self-driving Car and Trajectory Prediction*

Jun. 2019 - Jun. 2020

*AIMMLab @NCTU*

### Volunteer of Counseling Center

*As the first line of service stationed near the Center's entrance*

Oct. 2017 - Present

*NCTU Counseling Center*

## ACHIEVEMENTS

---

### IELTS: Band 7/9

*Academic Training*

Sep. 2020

### Java Programming Course In-Class Competition: Honorable Mention

*Java Music Player*

Jul. 2020

### ASVDA College Certificate

*2019 Big Data Analytics Platforms Workshop & Deep learning for Industrial Big Data*

Jul. 2019

### Best Volunteer Award

*NCTU Counseling Center Volunteer*

Jan. 2019

### Toeic: Golden Certificate

*Listening and Reading*

Jan. 2017