

Brian Chao

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Technical Skills

| C++ | Python | JavaScript | MATLAB |
| English | Chinese |

Education

National Taiwan University

2021

Bachelor of Science, Electrical Engineering [GPA 4.24 / 4.3, top 1%, ranked 2/169] (as of 2018)

- **Relevant Courses** (selected):

Calculus, Introduction to Computer Science, Computer Programming, Data Structures, Scientific Computing, Probability and Statistics, Discrete Mathematics, Machine Learning, Linear Algebra

Projects

<https://github.com/Mckinsey666/>

- **bullet [2153 stars on Github]:** A python interactive prompts package (6000+ downloads from PyPI as of 3/15, 2019).
- **vocabs [205 stars on Github]:** A CLI tool to integrate online dictionary to the terminal.
- **Functionally Reduced AIGs (FRAIG) tool:** an AIG (And-Inverter Graphs) circuit reduction tool. (C++).
- **Anime Generation:** Generating anime-like faces using Generative Adversarial Networks. (Python)
- **Generative Models Collection:** Implementation of various machine learning generative models such as autoencoders, generative adversarial networks. (Python)
- **Photo Style Transfer:** Transferring various painting styles to photos (Python).
- **Reinforcement Learning - Pong / Breakout AI:** Implementation of several reinforcement learning algorithms, eg: policy gradient, deep Q learning, and etc. (Python)
- **Shoot the DS:** an educational side-scrolling shooting game written with *pygame* to help students learn data structure complexities. (Python)

Experience and Awards

- **Undergraduate Research** 2018~
Vision and Learning Lab, under the supervision of Professor Yu-Chiang, Wang.
- **WorldQuant LLC Taiwan Research Intern** 2019/1~2019/2
Worked on several quantitative finance alpha ideas.
- **2018 Meichu Hackathon Enterprise Award (Institute for Information Industry): 1st place**
Designed and implemented a framework for an air quality management system for office buildings.
- **Participant of the 2018 ICPC Asia Taipei Regional Contest**
Honorable Mention
- **Member of NTUEE Student IT Department**
- **Dean's List Award* 3**