Byron Pin-Lun **Hsu**

LOOKING FOR 2020 SUMMER INTERNSHIP IN SOFTWARE DEVELOPMENT ENGINEER

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Education

National Taiwan University (NTU)   *Taipei, Taiwan*
B.S. IN ELECTRICAL ENGINEERING   *Sep. 2016 - Exp. Jun. 2020*

- **Overall GPA: 4.14/4.3, CS-related GPA: 4.3/4.3**
- **Dean's List Award** in 2018 Spring. **WEN KUEI TSAO Scholarship** (Prestigious Scholarship in NTUEE).
- **Teaching Assistant of Signals and Systems** (2019 Spring) - Instructor: Prof. Lin-Shan Lee
- **Director of Information Department** in NTUEE Student Association. **President of 2019 NTUEE Camp.**
- Selected courses: Data Structures and Algorithms, Data Structure and Programming, Introduction to Computer Networks, Computer Architecture, Signals and Systems, Parallel Programming, Machine learning, Deep learning, Computer vision, Introduction to Digital Speech Processing, Probability and Statistics, Discrete Mathematics, Engineering Mathematics-Linear Algebra, Networking and Multimedia Lab

Experience

NVIDIA Technology   *Taipei, Taiwan*
DEEP LEARNING RESEARCH INTERN   *Nov. 2019 - PRESENT*

- Supervised by Dr. Colleen Ruan. Focused on **Systematic Evolution of Ligands by Exponential Enrichment (SELEX)** optimization by deep learning to find high-affinity DNA aptamers to a certain target ligand.
- Integrated Bayesian Optimization with Convolutional Neural Network(CNN) to yield better experimental results.

Vision & Learning Lab, NTU   *Taipei, Taiwan*
UNDERGRADUATE RESEARCHER   *Sep. 2018 - Jul. 2019*

- Supervised by Prof. Yu-Chiang Frank Wang. Proposed a **state-of-the-art unsupervised fisheye image rectification method.**
- **Co-first author of** *"Self-Supervised Deep Learning for Fisheye Image Rectification"*, **accepted by IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2020).**

XiaoMi Technology   *Beijing, China*
SOFTWARE ENGINEER INTERN   *Jul. 2018 - Aug. 2018*

- Participated in an open-source project MACE, a deep learning inference framework optimized for mobile heterogeneous platforms.
- Configured cross-platform compatibility with Travis CI.

Honors & Awards

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	**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**
- A cli tool that allows you to build your own life branch using Terminal, and it supports visualizing 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**
- An online game that one can randomly connect to a player around the world and challenge him or her for a game of no blinking.
- Used react.js for frontend, flask for backend, and use socketIO to communicate.

Skills

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