Personal Particulars

Name: Ming-Yi Lai (Melson Lai)
Gender: Male
Date of Birth: 1997/08
Marital Status: Single
Nationality: Taiwan
Conscription Status: Unserved
Language: Mandarin, English

Programming Skills

Programming Language: C/C++, Bash Script, Python
Operating System: Ubuntu, Debian
Other: Docker

Contact Information

Email: ming-yi.lai [_at_] mymlai.com

Education

Master of Computer Science   **2019/07-2021/07 (Est.)**
Programming Language Laboratory, NTHU   Hsinchu, Taiwan
+ Advised by Prof. Jenq-Kuen Lee

Bachelor of Computer Science   **2015/09-2019/06**
National Tsing Hua University   Hsinchu, Taiwan

Senior High School   **2012/09-2015/06**
Tainan First Senior High School   Tainan, Taiwan

Study Abroad: Undergraduate Exchange   **2018/08-2019/05**
Nanyang Technological University   Singapore

Publications

Enabling Android NNAPI Flow for TVM Runtime   **2020/08**
Ming-Yi Lai, Chia-Yu Sung, Jenq-Kuen Lee, and Ming-Yu Hung
+ Accepted by ICPP EMS 2020
+ Devise algorithm to partition machine learning model for distribution to TVM/NNAPI
+ Convert TVM Relay IR to NNAPI equivalence

Working Experience

MediaTek Internship   **2020/07-2020/08**
Research Engineer   Hsinchu, Taiwan
+ Enable MLIR codegen for TVM utilizing Tensor IR

ITRI CITC Internship   **2017/07-2018/05**
Research Engineer   Hsinchu, Taiwan
+ Study how to perform distributed deep learning training
+ Study the performance factor of distributed deep learning frameworks (TensorFlow, PyTorch)

Research and Projects

Deep Learning Cloud Service   **2017/07-2018/07**
NTHU CS Bachelor Final Year Project   Hsinchu, Taiwan
+ Use OpenStack Horizon (Django) to create a WebUI
+ Incorporate OpenStack Swift, PostgreSQL, Kubernetes and TensorFlow as backend to enable semi-automatic deep learning training and inference

Taiwan Student Cluster Competition   **2017/03-09**
NTHU Delegation Member   Hsinchu, Taiwan
+ Win the second prize with significant edge over other competitors
+ Compile hardware-specific distributed software
+ Automate competition process with Bash and Python scripts

School Experience

Teaching Assistant of Compiler Design   **2020/03-2020/06**
National Tsing Hua University   Hsinchu, Taiwan
+ Hands-on with Lex and Yacc

Teaching Assistant of Service Learning: Urban Renewal   **2016/09-2017/06**
National Tsing Hua University   Hsinchu, Taiwan
+ Design lectures with both teaching and discussion sessions
+ Carry out hands-on sessions of dorm renewal

Job Expectation / Preference

Taiwan RDSS
Preferred, but not required

Date of Availability
2021/08 (w/ Taiwan RDSS Position)
2022/01 (w/o Taiwan RDSS Position)