Personal Particular

Name:	Ming-Yi Lai (Melson Lai)
Gender:	Male
Date of Birth:	1997/08
Nationality:	Taiwan
Conscription Status:	Served
Language:	Mandarin, English (TOEFL iBT 104)

Programming Skill

Programming Languages:	C/C++, Bash, Python, Go, Perl
Development Tools:	GNU Linux, Docker, GDB

Contact Information

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

Education

M.Eng in Computer Science   **2019/07-2021/07**
National Tsing Hua University   Hsinchu, Taiwan
+ Thesis: Accelerate Mobile Machine Learning Inferences with Combination
  of Machine Learning Runtimes
+ Advisor: Prof. Jenq-Kuen Lee

B.Eng in 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

Working Experience

Synology   **2021/09-2023/05**
Product Developer   Taipei, Taiwan
+ Design highly efficient software systems using multithread & multiprocess in C++
+ Develop customized file systems using the VFS layer in Linux kernel
+ Deliver cloud backend services with Go, gRPC, Redis, TiDB, etc.

PeakHills Group   **2021/04-2021/08**
Engineer   Hsinchu, Taiwan
+ Customize TVM AI compiler & runtime
+ Add VeriSilicon TIM-VX support to TVM

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

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

Research and Project

Enabling Android NNAPI Flow for TVM Runtime   **2020/08**
Ming-Yi Lai, Chia-Yu Sung, Jenq-Kuen Lee, and Ming-Yu Hung   (Virtual Conference)
  + Published in ICPP EMS 2020
  + Devise algorithm to partition machine learning models to TVM/NNAPI AI compiler & runtime
  + Convert TVM Relay IR to NNAPI equivalence

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   **2021/03-2021/06**
                                                                2020/03-2020/06
National Tsing Hua University   Hsinchu, Taiwan
  + Hands-on with Lex and Yacc

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

Job Expectation / Preference

Date of Availability
Anytime

Preferred Location
Hsinchu, Taiwan