

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 National Tsing Hua University + Thesis: Accelerate Mobile Machine Learning Inferences with Combination of Machine Learning Runtimes + Advisor: Prof. Jenq-Kuen Lee	2019/07-2021/07 Hsinchu, Taiwan
B.Eng in Computer Science National Tsing Hua University	2015/09-2019/06 Hsinchu, Taiwan
Senior High School Tainan First Senior High School	2012/09-2015/06 Tainan, Taiwan

Working Experience

Synology Product Developer + 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.	2021/09-2023/05 Taipei, Taiwan
PeakHills Group Engineer + Customize TVM AI compiler & runtime + Add VeriSilicon TIM-VX support to TVM	2021/04-2021/08 Hsinchu, Taiwan

MediaTek Internship + Enable MLIR codegen for TVM utilizing Tensor IR	2020/07-2020/08 Hsinchu, Taiwan
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ITRI CITC Internship + Study how to perform distributed deep learning training + Study the performance factor of distributed deep learning frameworks (TensorFlow, PyTorch)	2017/07-2018/05 Hsinchu, Taiwan
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Research and Project

Enabling Android NNAPI Flow for TVM Runtime Ming-Yi Lai, Chia-Yu Sung, Jenq-Kuen Lee, and Ming-Yu Hung + 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	2020/08 (Virtual Conference)
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Deep Learning Cloud Service NTHU CS Bachelor Final Year Project + 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	2017/07-2018/07 Hsinchu, Taiwan
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Taiwan Student Cluster Competition NTHU Delegation Member + Win the second prize with significant edge over other competitors + Compile hardware-specific distributed software + Automate competition process with Bash and Python scripts	2017/03-09 Hsinchu, Taiwan
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School Experience

Teaching Assistant of Compiler Design National Tsing Hua University + Hands-on with Lex and Yacc	2021/03-2021/06 2020/03-2020/06 Hsinchu, Taiwan
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Study Abroad: Undergraduate Exchange Nanyang Technological University	2018/08-2019/05 Singapore
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Job Expectation / Preference

Date of Availability
1 week after offer confirmed

Preferred Location
Hsinchu, Taiwan