

Yen-Shi Wang

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EDUCATION

Carnegie Mellon University	Pittsburgh, PA
Master of Science in Electrical and Computer Engineering	Dec. 2020
Current Coursework: Foundations of Computer Systems, How to Write Fast Code, Cloud Computing	
National Taiwan University	Taipei, Taiwan
Bachelor of Science in Computer Science and Information Engineering, GPA: 3.85/4.0	Jan. 2019
Bachelor of Science in Electrical Engineering, GPA: 3.85/4.0	Jan. 2019
Coursework: Algorithm Design and Analysis, Deep Learning, System Programming, Operating Systems, Multimedia Analysis	

EXPERIENCE

Skymizer	Taipei, Taiwan
C++ Developer	Apr. 2019 - Jul. 2019
<ul style="list-style-type: none">• Rewrote 21 optimizations in Open Neural Network Exchange (ONNX), ported into Open Neural Network Compiler (ONNC).• Initiated quantization flow in ONNC backend to perform 8-Bit quantization for NVIDIA Deep Learning Accelerator (NVDLA).• Experienced in NVDLA hardware structure, machine learning operators, ONNX/ONNC IR, and hardware-IR relation.• Introduced per-channel symmetric quantization, resulted mean square error is hundreds times smaller than per-layer method.	
BravoAI Co., Ltd.	Taipei, Taiwan
Software Engineer	Mar. 2018 - Sep. 2018
<ul style="list-style-type: none">• Developed a system using Pytorch and Tensorflow to convert fields on medical certificate from paper into electronic forms.• Integrated machine learning to deal with text detection, optical character recognition, and multi-label classification problems.• Deployed entire system with four Docker containers running Flask web service, operating at a speed of 0.5 image/sec.• Obtained per-character accuracy of over 95% and sold to two biggest insurance companies in Taiwan.	
WorldQuant, LLC	Taipei, Taiwan
Quantitative Research Intern & Consultant	Jul. 2017 - Mar. 2018
<ul style="list-style-type: none">• Created models from financial data to predict movement of stock markets, achieved highest Websim score among six interns.• Earned GOLD certificate on Websim and continued to work as a consultant, ranked 3rd among all Taiwanese consultants.	
National Taiwan University	Taipei, Taiwan
Teaching Assistant — Signals and Systems Course	Feb. 2017 - Jun. 2017
Experimental Assistant — Switching Circuit and Logic Design Course	Sep. 2016 - Jan. 2017

SKILLS

Programming Languages	C++, C, Java, Python, Bash, Javascript
Tools and Others	Linux/UNIX, Git, GDB, Make, Docker, Pytorch, Tensorflow, Node.js, React, AWS

PROJECTS

Sokoban solver (assignment in Theory of Computer Games)	Oct. 2018 - Dec. 2018
<ul style="list-style-type: none">• Utilized tools such as GProf, GDB and Git during development of programs.• Analyzed number of visited states with different algorithms (Ex. BFS, DFS, A Star, and DFID).• Combined bi-directional BFS with constraints to prune search space and ranked within top 10 solvers in class.	
Mail Service (final project in Network Administration and System Administration)	May 2017 - Jun. 2017
<ul style="list-style-type: none">• Configured Web mail, DNS, Cisco routers, VLANs, account management, LVM and firewall in Linux environment.• Established a mail service with LDAP (account database), Postfix (mail server) and Dovecot (storage server) in a team of three.• Leveraged Ansible to deploy entire service by one click, got highest final score among class.	

HONORS

2018 Rank 116 , Google Code Jam 2018, Round 1C	
2017 Silver Medal , ACM-ICPC Asia Hua-Lien Regional Contest	Hua-Lien, Taiwan
2017 Third Prize , National Collegiate Programming Contest 2017	Taipei, Taiwan
2013 Silver Medal , 54th International Mathematical Olympiad (IMO)	Santa Marta, Colombia