Yen-Shi Wang

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EDUCATION		
Carnegie Mellon University Master of Science in Electrical Coursework: Compilers Desig	and Computer Engineering, GPA: 3.95/4.0 gn, Cloud Computing, Storage Systems	Pittsburgh, PA Dec. 2020
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 Electrica	al Engineering, GPA: 3.85/4.0	Jan. 2019
Coursework: Operating Syste	ems, System Programming, Deep Learning, Multimedia Analysis	
SKILLS		
Programming Languages	C++, C, Python, Java, Bash, Javascript	
Cloud Platforms and Tools	AWS EC2/RDS/ECS/Lambda, Azure Functions, Spark	
Automations and Databases	utomations and Databases Terraform, Ansible, Docker, Kubernetes, MySQL, HBase, MongoDB, OpenLDAP	
Others	CUDA, LIVM, Linux, Git, GDB, CMake	
Experience		
 Improved C++ multithreadi Optimized GPU utilization w Actively updated internal door Carnegie Mellon University Teaching Assistant — Cloud Co Managed an AWS state mach Containerized frontend of question 	ng server for MLPerf Inference BERT benchmark to scale linearly fro rith CUDA streams and graphs, solved runtime bugs on CPU and GPU cuments, involved in group channels and discussions, and worked as omputing Jan. 2020 - May hine to automatically generate similarity reports on student's submi uiz cheat checking system written with Django into Docker image an	om 1- to 20-GPU machines. U, boosted throughput by 25%. a team in remote environment. Pittsburgh, PA 7. 2020, Aug. 2020 - Nov. 2020 ssions of 10 projects. nd deployed to AWS ECS.
Answered questions range fr	om Linux, Hadoop, Spark, AWS Auto Scaling, MySQL, Azure Funct	ions, Docker, to Kubernetes.
Skymizer C++ Developer — worked on • Rewrote 21 optimizations for • Initiated quantization flow in • Introduced per-channel symp	Open Neural Network Compiler (ONNC) r deep learning models from ONNX, added testing framework from s n ONNC backend to perform 8-bit quantization for NVIDIA Deep Le metric quantization, resulted mean squared error is hundreds times	Taipei, Taiwan Apr. 2019 - Jul. 2019 scratch, and ported into ONNC. arning Accelerator (NVDLA). smaller than per-layer method.
BravoAI Co., Ltd.		Taipei, Taiwan
Software Engineer — focused e • Developed a system using Py • Deployed entire system with • Obtained per-character accu	on Optical Character Recognition /Torch and TensorFlow to convert fields on medical certificate from four Docker containers running Flask web service, operating at a s racy of over 95% and sold to two biggest insurance companies in Ta	Mar. 2018 - Sep. 2018 paper into electronic forms. peed of 0.5 image/sec. aiwan.
PROJECTS		
Distinctness Analysis in LLVM • Created an LLVM Module Pa • Read LLVM doxygen, grew fa	I for C/C++ (final project in Optimizing Compilers at CMU) ss to generate function call graphs and perform Andersen's pointer amiliar with LLVM Infrastructure and dealt with Functions, Loops an	Mar. 2020 - May. 2020 analysis. nd at least 10 Instructions.
Data, Cache, Malloc, and She • Programmed cache simulato • Implemented C function ma	ell Labs (projects in Computer Systems at CMU) r, enhanced cache hit ratio of matrix multiplication, and ranked in t lloc with doubly linked segregated lists and first fit algorithm to ach	Sep. 2019 - Nov. 2019 top 10 among 600 students. nieve 74% memory utilization.

Implemented C function malloc with doubly linked segregated lists and first fit algorithm to achieve 74% memory utilization
 Designed a simple Linux shell supporting background jobs, signals handling, and I/O redirection with command line parser.

HONORS

2018 Rank 116, Google Code Jam 2018, Round 1C

2017 Silver Medal, ACM-ICPC Asia Hua-Lien Regional Contest

2013 Silver Medal, 54th International Mathematical Olympiad (IMO)

Hua-Lien, Taiwan Santa Marta, Colombia