HAN-YUN(HENRY) YEH

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EDUCATION

Carnegie Mellon University	**Silicon Valley, CA**	*Feb. 2021 - Dec. 2022*

· M.S. in Software Engineering

National Chiao Tung University	**Hsinchu, Taiwan**	*Sep. 2016 - June 2019*

· M.S. in Communications Engineering (GPA: 4.02/4.3)

National Taipei University	**Taipei, Taiwan**	*Sep. 2012 - June 2016*

· M.S. in Communications Engineering (Rank: 1st, GPA: 3.72/4.0)

WORK EXPERIENCE

Novatek, Inc	**Software Firmware Engineer**	*Aug 2020 - June 2021*

· Integrated IC verification report generator for audio/DSP part of latest SmartTV SoC IC.
· Optimizied DTS audio algorithm with Tensilia Hifi2/Hifi4 DSP processor.

IBM, Inc	**Application Developer**	*June 2018 - Oct. 2018*

· Constructed rule-based health information suggestions system using user's information from wearable devices and health knowledge from the internet
· Designed a backend infrastructure to collect and analyze website user behavior by means of JavaScript, Python, PHP, MongoDB, MySQL and deployed service on AWS

IBM, Inc	**Application Developer Intern**	*Jul. 2017 - Aug. 2017*

· Implemented an automated optical inspection (AOI) algorithm to detect defects in circuit board labels using Python with OpenCV

RESEARCH EXPERIENCE

National Chiao Tung University	**RA @ Speech Processing Lab**	*Sep. 2016 - Jan. 2019*

· Developed LSTM/Seq2Seq/Transformer based Mandarin pinyin to character language model
· Quantified LSTM based Dimensional sentiment analysis for Chinese phrases
· Established Child Speech Impairment Supporting System UI using Java

National Taipei University	**RA @ Signal Processing Lab**	*Sep. 2012 - June 2016*

· Implemented Speech recognition system that featured energy-based voice activity detection and a beam-forming noise cancellation module to enter student's grades automatically.
· Surveyed Mandarin prosody generation using CRF-based base-phrase chunk features and puctuation confidence for Madarin text to speech system

HORNORS AND AWARDS

· **6th Place** (2017) - IJCNLP Shared Task 2 [3] - Taipei, Taiwan
· **1st Place** (2015) - NTPU CE Senior Project Competition - Taipei, Taiwan
· **Best Paper Award** (2014) - Oriental COCOSDA [4] - Phuket, Thailand

TECHNICAL STRENGTHS

Languages	Python, C, Java, Javascript, PHP
Web Technologies	Bootstrap, jQuery, Nodejs, Express, SQL, NoSQL
Frameworks and Tools	TensorFlow, PyTorch, OpenCV , Git, Vim