HAN-YUN(HENRY) YEH

Santa Clara ⋄ hanyuny@andrew.cmu.edu ⋄ 341-314-7855
linkedin.com/in/henry034 ⋄ github.com/henry034

EDUCATION

Carnegie Mellon University **Silicon Valley, CA** *Feb. 2021 - Dec. 2022*
· M.S. in Software Engineering
Courses: Foundation of Software Engineering

National Chiao Tung University **Hsinchu, Taiwan** *Sep. 2016 - June 2019*
· M.S. in Communications Engineering (GPA: 4.02/4.3)
Courses: Algorithm, Deep learning, Machine learning

National Taipei University **Taipei, Taiwan** *Sep. 2012 - June 2016*
· B.S. in Communications Engineering (Rank: 1st, GPA: 3.72/4.0)
Courses: Data structures, Network programming

TECHNICAL SKILLS

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

WORK EXPERIENCE

Novatek, Inc **Software Firmware Engineer** *Aug 2020 - June 2021*
· Integrated IC verification report generator in C embedded programming for audio/DSP part of latest SmartTV SoC IC
· Optimizied DTS sound effect algorithm in C embedded programming with Tensilia Hifi2/Hifi4 DSP processor, achieved more than 4x speed up for audio processing

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 ⋆ *Python*
· 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 ⋆ *Python, 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 ⋆ *Speech processing, Deep learning, TensorFlow, Python*
· Quantified LSTM based Dimensional sentiment analysis for Chinese phrases ⋆ *NLP, Python*
· Established Child Speech Impairment Supporting System UI ⋆ *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. ⋆ *C, HTK*
· Surveyed Mandarin prosody generation using CRF-based base-phrase chunk features and puctuation confidence for Madarin text to speech system ⋆ *C, CRF*

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