

Shih-Yi (Matteo), Soo

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EDUCATION

National Tsing Hua University

M.S. in Computer Science

Hsinchu, Taiwan

September 2018 - April 2021

Soochow University

B.S. in Computer Science and Information Management

Taipei, Taiwan

September 2014 - June 2018

WORK EXPERIENCE

Walsin Lihwa Corporation

Data Engineer - internship

Taipei, Taiwan

April 2018 - July 2018

- Was in charge of the development of the text summarize in the smart meeting project.
- Applied the PageRank algorithm on text summarize for the specific industrial know-how.
- Used bi-LSTM model to generate a summarize news for factories.
- Implemented a web crawler program according to the IT requests from HR department.

PROJECTS

Singing Voice Synthesis with Vocal Harmony

March 2019 - September 2019

- Designed a lightweight and low-distortion solution based on unit selection synthesis method.
- Used WORLD vocoder as the reconstructed waveform basis to synthesize a two-part harmony melody.
- Incorporated the DeepBach model to make the accompaniment melody abide by counterpoint music composition theory.
- Honor: CTCI Foundation - AI Innovative Competition, 3rd place of AI & Arts (and NT\$200,000 in prize money)

AI Cloze Test System

November 2018 - January 2019

- Led a team of 4 members to build up an AI Cloze test system which used the Google Bert model with 80% accuracy.
- Used word2vec model to make the most possible answer fit with the multi choices.
- Honor: Tied with the three for Rank 1 in NTHU AI introduction course on platform of Kaggle competition

StrikeZone - Virtual Strike Zone with AR Technology

March 2017 - November 2017

- As the creative thinker, played the role of communication, coordination, integration and development.
- Used Unity (C#) to develop an AR 3D scene model and Firebase cloud database to store the hitter info for detecting the baseball whether passing the strike zone.
- Honor: International ICT Innovative Service Awards 2017 2nd place of information technology

TECHNICAL SKILLS

Programming Languages

Python, Java, C++

Web Development

HTML5, JavaScript, CSS

Deep Learning

PyTorch, TensorFlow, Keras

Others

Linux(Ubuntu), Git, Markdown, LaTeX