Shih-Yi (Matteo), Soo

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EDUCATION

National Tsing Hua University	**Hsinchu, Taiwan**
M.S. in Computer Science	*September 2018 - April 2021*

Soochow University	**Taipei, Taiwan**
B.S. in Computer Science and Information Management	*September 2014 - June 2018*

WORK EXPERIENCE

Walsin Lihwa Corporation	**Taipei, Taiwan**
Data Engineer - intership	*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, 3nd place of AI & Arts (and NT$200,000 in prize money)

AI Cloze Test System   *November 2018 - January 2019*

· Led a team of 3 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