**Yu-Sheng Su**

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# EDUCATION

**National Chengchi University, Taiwan** 2013.07 - Present

* Bachelor of Science in Computer Science
* Master of Science in Computer Science (GPA: 3.88/4.3)
* Selected Coursework: Foundations of Intelligent Systems, Web Search and Ming, Convolutional Neural Networks for Visual Recognition(coursera), Neural Networks and Deep Learning(coursera)
* Laboratory: CFDA (Computational Finance and Data Analytics Laboratory) and CLIP (Computational Linguistics and Information Processing Laboratory)

# WORK EXPERIENCE

**KKBOX project (Dr. Ming-Feng Tsai.) - Research Student, Taiwan** 2018.03 - Present

* Developing an algorithm for music recommender function to enhance recall rate and mean average precision of music recommender system increased by 4% so far relying on cross-domain transfer learning and Heterogeneous Preference Embedding.
* Combining Heterogeneous Preference Embedding with field aware factorization machines(FFM) on the Github repository cnclabs/proNet-core (network embedding framework).

**Trading Valley - Machine Learning Engineer Intern, Taiwan** 2017.03 – 2017.12

* Optimized personal optimal investment portfolio combinations by DNN and Random forests algorithm achieving 78% accuracy on stock market and increased approximately 10% accuracy by adding earnings features.
* Developed Facebook auto-push Chatbot to feed the latest news to user weekly based on user’s preference, read history, and text similarity. Activated 11% users to become Trading Valley daily users in 6 months.

# Microsoft – R&D Intern, Taiwan 2015.07 – 2016.07

# Developed an interacting Donating system for Taipei City Government through Xbox. Used Unity and Kinect for Windows SDK to build visual reality.

# Taipei City Government program: Food security – Built totally 12 clustering models and visualize food situation of every district in Taipei City by mining and analyzing 322 kind of Taipei City Government Open Datum, including expired date, source of food, and etc. to check food supply chain of schools in Taipei.

# PROJECT

**Kaggle (IEEE's Signal Processing Society) - Top 7% (Silver)** 2018.01 – 2018.02

* Built CNN models with the XceptionNet on patches of dimension 100 fine tuned on 300 to identify from which camera an image was taken. Collected additional 15GB images from Flickr made model reached 97.2% accuracy rate and we awarded a Silver Medal.

**Blockchain on Renting** 2017.09 – 2018.01

* Built a house renting platform for landlords and tenants on Ethereum blockchain and wrote a smart contract in case of illegal and untrusted problems.

**Personnel Change ElasticSearch engine** 2016.07 – 2017.07

* Built a web search engine for Graduate Institute of East Asian studies to analyze the relationship among personnel change after a president started his/her presidency officially lunched on January 2017. Self-designed ElasticSearch algorithm and used Nodejs bridged front-end, and back-end.

**Click-Through Rate Prediction** 2016.03 – 2017.01

* Built a click-through rate prediction system with Spark for performing row data on distributed computing cluster. Used field-aware factorization machines (FFM) and Random forests algorithm as the prediction model achieved 86.2% accuracy.

# SKILL

**Programming/Scripting Languages**

* Professional Python, Professional C/C++, working knowledge in Nodejs, Fluent Zsh/Bash, working knowledge in SQL

**Frameworks/ Tools**

* Git, Spark, Keras, TensorFlow, scikit-learn