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# EDUCATION

# National Chengchi University, Taiwan 2013.07 – Present

* B.S. and M.S. in Computer Science (GPA:3.88/4.3)
* Selected Coursework: Foundations of Intelligent Systems, Web Search and Mining, 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 - Research Student, Taiwan** 2018.03 - Present

* Developing an algorithm for music recommender system to enhance both the Recall Rate and Increase Mean Average precision by 4% by utilizing cross-domain Transfer Learning and Heterogeneous Preference Embedding
* Enabling FFM(Field Aware Factorization Machines) to HPE(Heterogeneous Preference Embedding) in the open source github project

**Trading Valley - Machine Learning Engineer Intern, Taiwan** 2017.03 – 2017.11

* Optimized personal investment portfolio by Deep Neural Network and Random Forests algorithm; enhanced accuracy of prediction on stock market fluctuation from 78% to 88% by adding quarterly earnings
* Increased Trading Valley daily users by 11% within 6 months by developing Facebook auto-push Chatbot system; provided the latest news to users on a weekly-basis depending on user preference, user’s browsing history, and content-based similarity

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

# Developed an interacting XBOX-based Donating system for local government; utilized Unity and Kinect for Windows SDK to build visual reality

# Governmental program(Food security) – Built 12 clustering models and visualized municipal food quality inspection by mining and analyzing 322 kinds of Taipei City Government Open Datum to validate the food supply chain of school system

# PROJECT

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

* Built CNN models to achieve 97.2% accuracy rate of source identification by using XceptionNet (patches of dimension 100)

**Blockchain on Renting** 2017.11 – 2018.01

* Built a house renting platform on Ethereum blockchain providing housing information to landlords and tenants ,and designed a smart contract to enhance confidence

**Personnel Change ElasticSearch Engine** 2016.07 – 2017.07

* Published and maintained a web search engine for Graduate Institute of East Asian studies; analyzed the association between the change of government and the personnel replacement; implemented self-designed algorithm on ElasticSearch and built a web and server with Node.js

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

* Built a click-through rate prediction system with Spark on distributed computing cluster; achieved 86.2% accuracy of prediction by using field-aware factorization machines (FFM) and random forests algorithm as the reference model

# SKILL

**Programming/Scripting Languages**

* Professional in Python and C/C++; Working knowledge in Node.js and SQL; Fluent Zsh/Bash

**Frameworks/ Tools**

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