# Yu-Chia Chen

+886-956712689    yuchiachen99@gmail.com

## EDUCATION

**National Taiwan University** *Taipei, Taiwan*
*Bachelor of Arts in Economics* Sept. 2017 – June 2021
- CS-Related Courses GPA: 3.94/4.3
- Related courses: Computer Programming Language, Data Structure and Algorithm, Operating System, Discrete Math, Machine Learning Techniques & Foundation, Statistics & Econometric

## PRACTICAL EXPERIENCE

**Microsoft Corporation** *Taipei, Taiwan*
*Software Engineer Intern* July 2020 – July 2021
- Built a deep learning-based fan anomaly detection model with 99% accuracy in the production stage
- Designed dataflows of 300TB+data monthly for business analytics with Azure Synapse and Databricks
- Coordinated and Lectured 10+ Azure Machine Learning workshops for 150+ engineers

**eLand Information Corporation** *Taipei, Taiwan*
*Data Science Engineer Intern* Mar. 2020 – June 2020
- Developed a machine learning model for categorizing websites
- Maintained and validated the accuracy of newly released AI models used for semantic analysis

**National Ilan University - Multimedia & Intelligent Technical Laboratory** *Ilan, Taiwan*
*Supervisor: Prof. Chih-Hsien Hsia (Computer Science and Information Engineering)* Dec. 2020 – Present
- Exceeded an unknown object detection system with edge-cloud cooperation on the Internet of Vehicles
- Improved accuracy by 4% (compared to ML model) to 0.845 with a deep learning model (BERT)

## PUBLICATIONS

**Yu-Chia Chen**, Sin-Ye Jhong, and Chih-Hsien Hsia, "RSU-Based Unknown Object Detection System in Difficult Weather Conditions for Smart Internet of Vehicles," submitted to ACM Transactions on Management Information Systems (TMIS), 2021.

**Yu-Chia Chen**, Zih-Ching Chen, and Chih-Hsien Hsia, "Music Mood Classification System for Streaming Platform Analysis via Deep Learning-Based Feature Extraction," in Proceedings of the IEEE International Conference on Consumer Electronics - Taiwan (ICCE-TW), 2021.

## PROJECTS

**Data Structure Visualizer** | Node.js, React.js, MongoDB, Azure Cloud Services
*Final Project: Web Programming*
- Created advanced visualization tools to help people who love to learn data structure to learn efficiently visualized 8 data structures and ten sorting algorithms
- Accelerated website released rate and boosted code quality with CI/CD pipelines on Azure

## AWARDS

**National Open Data and Innovation Competition** *Taipei, Taiwan*
*Top 6% over than 100 teams* Feb. 2020 – May 2020

## VOLUNTEERING

**Economics Summer Camp for High School Students** *Taipei, Taiwan*
*Academic Officer* Jan. 2019 – July 2019
*Vice Academic Officer* Jan. 2018 – July 2018
- Led a group of 15 members to design an Economics theoretical strategy game
- Designed courses for students to apply Economics theories to analyze real-world social issues

## SKILLS

- **Programming Language**: Python (Django, PyTorch), C++, C, JavaScript (Node.js, React.js), R
- **Other Technical Skills:** Spark, Azure, AWS, Git, Linux, MySQL, MongoDB
- **Languages:** Mandarin (native), English (TOEFL 104/120, TOEIC Gold)