

Pin-Yen (Jason) Huang

011-886-92835241 | r09922a04@csie.ntu.edu.tw | [linkedin.com/in/pm-huang](https://www.linkedin.com/in/pm-huang) | github.com/pm25

EDUCATION

National Taiwan University <i>M.S. in Computer Science and Information Engineering, Advisor: Hsuan-Tien Lin</i>	Taipei, Taiwan <i>Sep. 2020 – Present</i>
National Chengchi University <i>B.S. in Computer Science (GPA: 4.15/4.3)(rank 1/50 final semester)</i> Course: Operating System(A+), Object-oriented Programming(A+), PyTorch and Machine Learning(A+), Programming Languages(A+), Text Analysis with Deep Learning(A), Data Science(A+), Deep Reinforcement Learning and its Applications(A-), Security and Privacy in Machine Learning(A+)	Taipei, Taiwan <i>Sep. 2018 – June 2020</i>
National Chi Nan University <i>B.S. in Computer Science and Information Engineering (GPA: 82/100)</i> Course: Computer Programming(A+), Computer Graphics(A), Linear Algebra(A-), Probability(A-), Data Structures and Algorithms(1)(2)(A+), Computer Organization and Architecture(A)	Nantou, Taiwan <i>Sep. 2016 – June 2018</i>

HONORS / AWARDS

Presidential Awards <i>NCCU (Certificate of Award for outstanding academic performance)</i>	<i>spring semester, 2020</i>
---	------------------------------

EXPERIENCE

Undergraduate Summer Research Internship <i>University of Illinois at Urbana-Champaign, Dept. of ECE, PI: Prof. Douglas L. Jones</i> <ul style="list-style-type: none">Developed onset & offset detection algorithms for specific type of audio signals by python.Built a system to automate the process of trim and labeling audio data.	July 2019 – Sep 2019 <i>Urbana, IL</i>
Research Scholarship from Ministry of Science and Technology <i>National Chengchi University, Dept. of CS, PI: Prof. Chao-Lin Liu</i> <ul style="list-style-type: none">Developed a named-entity recognition (NER) system for Literary Chinese.Improve the F1 score by 9% by applying machine learning technique(LSTM-CRF).Built an optical character recognition (OCR) system for Literary Chinese with machine learning.Applied self-organizing map & clustering aggregation to increase the speed of labeling data by human by 12x.	July 2019 – Mar 2020 <i>Taipei, Taiwan</i>
Undergraduate Research Assistant <i>University of Taipei, Dept. of CS, PI: Cheng-Ying Yang</i> <ul style="list-style-type: none">Improved the performance of encryption algorithm in IoT devices.Used greedy algorithm to get secured encryption even with poor computing resources.Analysised and visualized the performance and published final results to <u>journal</u>.	Sep. 2017 – Present <i>Taipei, Taiwan</i>

PRESENTATION / WORKSHOP

Deep Learning with Keras <i>University of Illinois at Urbana-Champaign (UIUC), Prof. Stephen Boppart's laboratory</i>	Sep 4, 2019 <i>Urbana, IL</i>
---	----------------------------------

COURSE PROJECTS

YouBike Realtime Status System <i>Javascript, D3JS</i> <ul style="list-style-type: none">Developed a <u>website</u> that show realtime rent & return status of YouBike with Google Map.Implemented a system to find optimal place for users to rent & return bicycle.	May 2020 – June 2020
Air Quality Forecast <i>R, Shiny</i> <ul style="list-style-type: none">Created a <u>website</u> that forecast future air quality with based on past data.Used Gradient Boosting Algorithms & Decision Tree.	May 2019 – June 2019
Automated Portfolio Management System <i>Python, PyTorch</i> <ul style="list-style-type: none">Developed a system to automate investment management.Used deep reinforcement learning technique(Actor-Critic) to get 59% of cases earning money.	April 2019 – June 2019

TECHNICAL SKILLS

Languages: (proficient): C/C++, Python, JavaScript. (familiar): HTML/CSS, R, matlab.
Libraries: PyTorch, Tensorflow, Keras