

CHIH-YANG HUANG

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Work Experience

Senior Engineer

CAD, Design Engineering Service, Novatek Microelectronics Corp.

Hsinchu, Taiwan

Apr. 2021 - Now

- I am **the first few employees** joining the Design Platform (DP) sub-department.
- Build the design platform to manipulate and analyze the data, such as **PM, HR planning and CAD tools**.
- **Python3** to parse data from **CAD tools (ICC2, INVS)** and connect with **PostgreSQL**
- Webix, Quasar, PrimeVue and **Vue3** to build front-end website
- Mocha and Jest to do front-end website unit tests
- **Java Spring Boot** to build back-end business models and algorithms
- JUnit to do back-end website unit tests

Research Assistant

Research Center for Digital Humanities, National Taiwan University

Taipei, Taiwan

Feb. 2019 - Jul. 2019

- An IT engineer
- I used **HTML, CSS, JavaScript, PHP, MySQL and Sphinx Search Engine** to build and maintain several websites.
 - DocuSky
 - DanXin Archives System for Hakka Studies
 - THDL GIS

Education & Training

National Taiwan University

M.S. in AI, Computer Science and Information Engineering (GPA 4.0/4.3)

Taipei, Taiwan

2019 - 2021

Institute of Statistical Science, Academia Sinica

Summer School Student

Taipei, Taiwan

2017

University of Malaya

Exchange Program

Kuala Lumpur, Malaysia

2016 - 2017

University of Taipei

B.S. in Computer Science (94.84/100)

Taipei, Taiwan

2015 - 2019

Master Thesis

- Title: Company Failure Risk Assessment Based on the Court's Judgments
- Methods: Use **bi-LSTM, word embedding, SVM and logistic regression** to build several models. Establish web pages to **visualize** the results.
- Technical Skills: Python, **PyTorch**, HTML, CSS, JavaScript, PHP, MySQL

Community Projects

Inkrosetta, Top 20 Team in the 2022 Taiwan Presidential Hackathon Sep. 2022
We figured out the Uniform News Platform for Government, which is adopted by gov partly.
Executive Yuan, Taiwan

E.SUN AI Open Competition Winter 2021-Credit Card Transaction Category Recommendation (13 / 859) Feb. 2022
LSTM, Neural Network Model *E.SUN Commercial Bank, Taipei*

Conference Proceedings

Company Failure Risk Prediction Based on the Court's Judgments DADH 2020
Chih-yang Huang *Academia Sinica, Taipei*

An HGIS Platform of Taiwanese Land Deeds PNC 2019
Jieh Hsiang, Chih-yang Huang *Nanyang Technological University, Singapore*

An user-oriented HGIS platform on Taiwanese Land Deeds JADH 2019
Chih-yang Huang, Nung-yao Lin, Chung-Hsiang Ou *Kansai University, Osaka, Japan*

Journal Papers

DocuWidgets: Enhanced Toolkits for DocuSky 數位典藏與數位人文, (9), 1-13, 2022
Chih-Yang Huang, Jieh Hsiang, Hsieh-Chang Tu *NTU, Taipei*

Exact and Heuristic Algorithms for Some Spatial-aware Interest Group Query Problems Journal of Internet Technology, vol. 21, no. 4, pp. 1199-1205, Jul. 2020
Chih-Yang Huang, Po-Chuan Chien, Yen Hung Chen *NTU, Taipei*

System Projects with DOI

淡新檔案客家研究數位分析系統 (DASH) Apr. 2020
HTML, CSS, JavaScript, PHP, MySQL, Sphinx Search Engine *RCDH, NTU*

THDL 古契書歷史地理資訊系統 Aug. 2019
HTML, CSS, JavaScript, PHP, MySQL *RCDH, NTU*

References

Prof. Jieh Hsiang jhsiang@ntu.edu.tw
Department of Computer Science and Information Engineering, National Taiwan University
Distinguished Professor

Prof. Yen Hung Chen yhchen@utapei.edu.tw
Department of Computer Science, University of Taipei *Associate Professor*