

CHIH-YANG HUANG

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WORK EXPERIENCE

NOVATEK MICROELECTRONICS CORP. | SENIOR ENGINEER AT CAD, DESIGN ENGINEERING SERVICE
Hsinchu, Taiwan | Apr. 2021 - Now

- I am **the first few employees** joining the Design Platform (DP) sub-department and lead the development **direction** of this department.
- To replace the old-fashioned PM approach, such as MS Excel editing, we **build the design platform to manipulate and analyze the data**.
- We centralize **data storage** from file system to PostgreSQL in order to implement data analysis and visualization.
- We create some **machine learning models** to predict the **computing resources allocation**.

NATIONAL TAIWAN UNIVERSITY | RESEARCH ASSISTANT AT RESEARCH CENTER FOR DIGITAL HUMANITIES
Taipei, Taiwan | Feb. 2019 - Jul. 2019

- I was an IT engineer and I used **HTML, CSS, JavaScript, PHP, MySQL and Sphinx Search Engine** to build and maintain several websites.

EDUCATION & TRAINING

National Taiwan University Taipei, Taiwan | 2019 - 2021
M.S. IN AI, COMPUTER SCIENCE AND INFORMATION ENGINEERING (GPA 4.0/4.3)
Coursework: Advanced Artificial Intelligence; Natural Language Processing; Introduction to Digital Speech Processing

Institute of Statistical Science, Academia Sinica Taipei, Taiwan | 2017
SUMMER SCHOOL STUDENT
Coursework: Financial Statistics; Industrial Statistics

University of Malaya Kuala Lumpur, Malaysia | 2016 - 2017
EXCHANGE PROGRAM
Coursework: Computer Network; Digital System Design

University of Taipei Taipei, Taiwan | 2015 - 2019
B.S. IN COMPUTER SCIENCE (94.84/100)
Coursework: Data Structures; Algorithms

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 
EXECUTIVE YUAN, TAIWAN | SEP. 2022
We figured out the Uniform News Platform for Government, which is adopted by gov partly.

E.SUN AI OPEN COMPETITION WINTER 2021-CREDIT CARD TRANSACTION CATEGORY RECOMMENDATION (13 / 859) 
E.SUN COMMERCIAL BANK, TAIPEI | FEB. 2022
LSTM, Neural Network Model

JOURNAL PAPERS

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 | NTU, Taipei

CHIH-YANG HUANG, PO-CHUAN CHIEN, YEN HUNG CHEN

This paper designs an exact algorithm on a **measure-&-conquer-based** method to precisely solve the **NP-Complete** problem, and a performance analysis is given.

SYSTEM PROJECTS WITH DOI

淡新檔案客家研究數位分析系統 (DASH)

RCDH, NTU | APR. 2020

HTML, CSS, JavaScript, PHP, MySQL, Sphinx Search Engine

- We collected the archives and labeled the persons, locations, objects, as well as Hakka elements to do more analysis.
- We built DASH that allows users to do **full-text query**, observe and interact with the **contexts** provided by the system.

THDL GIS 古契書歷史地理資訊系統

RCDH, NTU | AUG. 2019

HTML, CSS, JavaScript, PHP, MySQL

- This tool allows users to observe the **geographic location** and distribution of land deeds in the part of THDL.
- A **novel** method allows users to **draw a polygon** to retrieve all the land deeds.
- A **timeline feature** for refining the query result set according to time is included.

REFERENCES

- Prof. Jieh Hsiang
 - Distinguished Professor
 - Department of Computer Science and Information Engineering, National Taiwan University
 - jhsiang@ntu.edu.tw
- Prof. Yen Hung Chen
 - Professor
 - Department of Computer Science, University of Taipei
 - yhchen@utapei.edu.tw
- Ms. Winnie Chang
 - Software Engineer
 - Novatek Microelectronics Corp.
 - Winnie_Chang@novatek.com.tw

SKILLS

Languages: Java, Python, PHP, Bash, SQL

Web Development: Java Spring Boot, Vue3, JavaScript, HTML/CSS

Technology: Git, \LaTeX , PostgreSQL, GIS