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.
- 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

NATIONAL TAIWAN UNIVERSITY | Research Assistant At Research Center for Digital Humanities
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.

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

CONFERENCE PROCEEDINGS

Company Failure Risk Prediction Based on the Court's Judgments   DADH 2020 | Academia Sinica, Taipei
CHIH-YANG HUANG

An HGIS Platform of Taiwanese Land Deeds   PNC 2019 | Nanyang Technological University, Singapore
JIEH HSIANG, CHIH-YANG HUANG

An user-oriented HGIS platform on Taiwanese Land Deeds   JADH 2019 | Kansai University, Osaka, Japan
CHIH-YANG HUANG, NUNG-YAO LIN, CHUNG-HSIANG OU

JOURNAL PAPERS

DocuWidgets: Enhanced Toolkits for DocuSky   數位典藏與數位人文, (9), 1-13, 2022 | NTU, Taipei
CHIH-YANG HUANG, JIEH HSIANG, HSIEH-CHANG TU

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 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 the user to do full-text query, observe and interact with the contexts provided by the system.

THDL 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 "Taiwan Governors Archive for Transcribed Contract Documents" subcollection of THDL.
- A novel method allowing the user to draw a polygon to retrieve all the land deeds within is also provided.
- A timeline feature for refining the query result set according to time is also included.

REFERENCES

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

SKILLS

Languages: Java, Python, PHP, Bash, SQL
Web Development: Java Spring Boot, Vue3, JavaScript, HTML/CSS
Technology: Git, LaTeX, PostgreSQL