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

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

FDUCATION & 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

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 Journal of Digital Archives and Digital Humanities, (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 **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) [2]

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.

RFFFRFNCFS

- · Prof. Jieh Hsiang
 - Distinguished Professor
 - Department of Computer Science and Information Engineering, National Taiwan University
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 - Professor
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 - yhchen@utaipei.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