

## EDUCATION

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### National Taiwan University

*Bachelor of Business Administration in Information Management*

Taipei, Taiwan

*Sept. 2018 – June 2022*

- Relevant Coursework:

Data Structures, Algorithms, Operating Systems (A), Game Programming (A), Systems Design (A), Discrete Mathematics (A), Text Mining (A), Machine Learning (A), Web Programming (A), Social Media Analysis (A), Database, Computer Networks, Programming Languages, Operations Research

## SKILLS

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### Programming

Python, JavaScript, C, C++, HTML, CSS, Unity, SQL, R, Swift

### Tools & Frameworks

React, Redux, MaterialUI, MongoDB, Git, Numpy, Pandas, sklearn, Pytorch

### Languages

Mandarin (Native), English (Fluent), Korean (Basic)

## PROJECTS

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### CoDAI Classroom

- Built frontend interface allowing teachers to create courses, course plans, and classrooms by using **React**.
- Dispatched 5+ actions to the reducer and updated the website's states based on actions by utilizing **Redux**.
- Instructed introductory C++ concepts and syntax in a class of **20+ students** using CoDAI Classroom.
- Advanced user experience and efficiency of creating courses from only one course to more than **ten courses** at a time by redesigning the frontend functionalities.

### Steam Potential Customers Analysis

- Smoothed the process in potential customers analysis by fetching **7.5 million Steam user reviews** from **MongoDB** to construct a game dictionary and a frequency matrix.
- Implemented **Z-test** for the review frequency matrix to analyze whether the relationship between any two games is significant for more than **2000 games** to further use for DNN model.

### Spectral Clustering on Star Wars

- Established a **ratio-cut Laplacian matrix** by utilizing the adjacent matrix of 69 characters in Star Wars.
- Formalized a relaxed matrix by introducing **Numpy** to calculate eigenvectors based on the Laplacian matrix.
- Remodeled more robust characters communities than K-means by implementing **Spectral clustering**.

### News Classification with BERT

- Operated the **BERT-BASE** model to extract the **CLS embedding** for more than 1000 news documents.
- Reached an accuracy of 89% for classification by applying the **SVM** model using the CLS embedding.

## ACTIVITIES

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### Nonprofit Python Education Camp

- Designed a comprehensive Python course combined with NBA and taught **20+ students** by using it.
- Showcased clear oral expression and real-life examples to help 20+ elementary school students clarify what is variable, if-else, and for/while loops in **only two days**.

### NTU Information Management Sports Team

- Participated in the competition as a team player of NTUIM's Basketball Team and Table Tennis Team.

### NTU Information Management Student Association

- Minister of Equipment Department, leading a team to coordinate with others to solve equipment issues for 50+ students in the public area in the department.