

# Caslow Chien

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## EDUCATION

### Boston University | Boston, MA

Master's, Data Science Expected May 2025

### National Taiwan University | Taipei, Taiwan

Bachelor's, Physics Sep 2019 – Jun 2024

- One-year exchange program in the Australian National University

## PROFESSIONAL EXPERIENCE

### National Science and Technology Center | Taipei, Taiwan

Data Science Contractor Jan 2024 – May 2024

- Developed a deep learning model to classify 256 groups using survey data, validated with statistical methods.
- Designed a game prototype for disseminating disaster reduction knowledge that worth \$17,000 in Taiwan's market.
- Collaborated with the host government organization after winning the Most Popular Award in a data competition.

### Accudata Research Institute Inc. | Taipei, Taiwan

Data Science part-time Intern Mar 2023 – Jun 2023

- Developed a recommendation system for online grocery shopping in 3 months with a small team of 2, and conducted stress tests to reduce the search time to 0.05 milliseconds with a recall of 97%.
- Retrieved product data with Microsoft SQL Server, reduced the processing time by 50% with modify the nested code, and designed data batch formats to resolve data conflicts.

## PROJECT / CONTESTS

### Dashboard with Automatic Tagging and Market Sentiment Analysis Model Jun 2023

- Skill matrix: natural language processing, data mining, machine learning, front-end development
- Tools: Python (Streamlit), ML model (ChatGPT API), HTML, CSS.

### Coding 101 University Programming Contest, 3<sup>rd</sup> place Mar 2023

- Skill matrix: natural language processing, data mining, machine learning, web crawling,
- Tools: Python (BeautifulSoup, Requests), ML model (RoBERTa).

### Data Communication of Disaster Prevention Contest, 3<sup>rd</sup> place & Best Popularity Award Dec 2022

- Skill matrix: data prediction, data mining, machine learning, model deployment, web design
- Tools: Python (Pandas, Pytorch), ML model (self-built DNN), HTML, CSS, JavaScript.

### Nation Colleges Data Analysis Contest, Finalist Dec 2022

- Skill matrix: data analyze, data mining, data visualizing
- Tools: Python (Pandas, Matplotlib, Seaborn), Tableau

### Data Analysis and Prediction for electric car chargers Dec 2022

- Skill matrix: data analyze, data mining, front-end development, full-stack development
- Tools: Python (Pandas, Pytorch), ML model (self-built DNN), HTML, CSS, JavaScript

### Database Management System for movie with PHP Nov 2022

- Skill matrix: relational database management
- Tools: PHP, JavaScript, SQL

### National College Business Case Contest, Finalist May 2020

## LEADERSHIP/ ACTIVITIES

### Data Analytics Club, National Taiwan University | Taipei, Taiwan

Member Sep 2022 – Jun 2023

- Developed consulting, project management, survey design, data presentation and 8 additional skills.
- Presented insightful results and a full-stack dashboard for a project with Taiwan's largest e-scooter company.

### Pop dance Club, National Taiwan University | Taipei, Taiwan

President & Education Officer Jul 2020 – Jul 2021

- Led a club of 400 members and organized 12 events, including Taiwan's largest street dance competition.

## RESEARCH EXPERIENCE

### Multimodal Generative AI for Music-Driven Dance Generation, National Science and Technology Council | Taiwan

Researcher Jul 2023 – May 2024

- Developed a freestyle 3D breakdancing model that received 10% more votes from professional breakdancers.
- Created dataset by choosing, trimming, and tuning music speed to match the existing video.
- Awarded the 2023 College Student Research Scholarship.

### Artificial Intelligence and Multimedia Laboratory, National Taiwan University | Taiwan

Research Assistant Jul 2022 – Jul 2023

- Contributed to data annotation for image recognition model and hyperparameters for knowledge distillation model.
- Presented text-to-image advertisement generation diffusion models at IEEE ICEM in Brisbane, Australia.
- Studied neural network adversarial attacks on self-driving vehicles and proposed solutions at Hon Hai Tech Day.