

# Shih Wen (Caslow) Chien

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## EDUCATION

### Boston University

*Master of Science in Data Science*

Expected Dec 2025

- Relevant Coursework: Product Management. Deep Learning. Azure. Data Science Tools. Data Engineering.

### National Taiwan University

*Bachelor of Science in Physics*

Sep 2019 – May 2024

- Exchange Program: Australian National University.

Jul 2023 – May 2024

## TECHNICAL SKILLS

Python (PyTorch, TensorFlow, Scikit-Learn, Pandas), SQL, R, Tableau, Power BI, Git, Docker, Azure, JavaScript

## PROFESSIONAL EXPERIENCE

### Taiwan's National Science and Technology Center for Disaster Reduction

Jan 2024 – May 2024

*Data Science Consultant*

*Remote*

- Developed a \$17k data-driven educational game prototype, utilizing a deep neural network with PyTorch to train on post-typhoon disaster survey data to predict survival rates, achieving 80% classification accuracy.
- Led a cross-functional team to achieve a 70% engagement increase and win “Most Popular” award in MVP testing.
- Analyzed and processed data with Pandas to ensure quality inputs for model training and validation.

### Accudata Research Institute Inc.

Mar 2023 – Jun 2023

*Data Science Intern*

*Taiwan*

- Optimized SQL query performance for a large relational database (17k products, 600k users) using indexing, CTEs, and query refactoring, achieving a 50% reduction in retrieval time.
- Built a two-tower deep learning recommendation system with TensorFlow, enhancing user experience and increasing conversion rates with 97% recall and 0.05 ms search time.
- Conducted stress tests to ensure scalability, confirming hardware sufficiency and preventing unnecessary upgrades.

## PROJECTS

### Automated Daily Reporting with Market Analysis

Mar 2023 – Jun 2023

- Leveraged GPT-3.5 API for sentiment analysis and automated tagging, delivering actionable market insights on the dashboard in 60 seconds and saving 20 hours of work weekly for the marketing team.
- Designed an ETL pipeline to clean and process data, integrating machine learning predictions for real-time updates.

### Quantitative Trading Platform with Social Media Analysis

Dec 2022 – Mar 2023

- Developed and deployed a sentiment analysis model using RoBERTa from HuggingFace and Python to analyze Bitcoin market sentiment, leveraging Tweepy for real-time data scraping from Twitter.
- Deployed natural language processing model for sentiment analyzation with self-scraped data for decision making.

## RESEARCH

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

*Taiwan*

*Research Assistant*

Jul 2022 – Jul 2023

- Fine-tuned a transformer-based diffusion model with PyTorch to enhance 3D breakdancing video generation, expanding the dataset with 53 self-edited clips, resulting in an 18% increase in votes in a performance blind test.
- Optimized hyperparameter for knowledge distillation models and annotated data for image recognition tasks.

## LEADERSHIP EXPERIENCE

### Data Analytics Club

*Taiwan*

*Technical Lead & Member*

Sep 2022 – Jun 2023

- Directed a team to use API and programming skills to transform data into insights, solving client challenges.

### Pop Dance Club

*Taiwan*

*President & Education Officer*

Jul 2020 – Jul 2021

- Led a club of 400 members, organized 12 events, managed a \$35K budget, and ensured inclusion in all activities.