

# Wei-Chun Tseng

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## WORK EXPERIENCE

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### E3 Research Group @ NTU | Research Assistant

08/2023 – 11/2023

- Accomplished data analytics models with **Python** and bootstrap-based modeling framework to evaluate the carbon reduction potential of electric vehicle transition.
- Succeeded in increasing policy review frequency by **12-fold** and reducing implementation costs by **80%**, significantly improving efficiency and effectiveness in environmental strategy execution.
- Headed a 10-member team in **2023 Presidential Hackathon**, emerging as one of the top 20 teams in the final round among 150+ competitors.

### E3 Research Group @ NTU | Graduate Student Researcher

07/2021 – 08/2023

- Developed **data processing pipelines** capable of efficiently managing **over 10 million** records of power generation data.
- Conducted detailed analysis of electric vehicle emissions with consideration for the high temporal and spatial variability of the power grid, identifying key areas for improvement.
- Received the **Excellence Award** at the **2022 Unimicron ESG Technology Poster Competition**.
- Published findings in a **Q1-level international journal**, contributing to advancements in sustainable practices.

## EDUCATION

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### National Taiwan University || Taipei, Taiwan

07/2021 – 08/2023

*Master of Science in Computer-Aided Engineering, Civil Engineering (4.0/4.3).*

- Key Coursework:**  
Object-Oriented Programming, Data Structure and Algorithms, Web Development, Machine learning and Deep learning, Computational Statistics, Financial Technology.
- Teaching Assistant:**  
Directed a data analytics and machine learning curriculum, enhancing students' problem-solving abilities for key energy sector challenges.

### National Central University || Taoyuan, Taiwan

07/2017 – 06/2021

*Bachelor of Science in Civil Engineering (3.8/4.0)*

- Achieved **5-time** Academic Excellence Awards (**Top 5%** of the department).

## PROJECTS

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### Recipe API

04/2024

- A comprehensive REST API for managing and storing recipes.
- Developed a classification and authentication system, elevating operational safety and boosting efficiency.
- Keywords: Python, Django, Docker, GitHub Actions, PostgreSQL, Test-Driven Development, AWS.

### Mapin

09/2023

- A user-friendly web application that enables users to share and discover places.
- Resolved the issue of outdated information in traditional travel guides by providing the latest updates directly from user contributions.
- Keywords: JavaScript, React.js, Express.js, MongoDB, Node.js, Mapbox API.

### NTU CAECE NFT Certificate System

08/2022

- A Blockchain-based system for issuing NFT digital certificates for internship programs.
- Addressed traditional paper certificate challenges, reducing fraud risk and improving sustainability.
- Keywords: JavaScript, Node.js, React.js, Smart Contract.

## SKILLS

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- Programming:** Python | SQL | JavaScript | C | C++ | HTML | CSS
- Web Development:** Django | FastAPI | Node.js | Express.js | AWS | React.js | Vite.js | TailwindCSS
- Tools & Database:** Git | GitHub | GitHub Actions | Docker | Linux | PostgreSQL | MySQL | MongoDB
- Data Science:** NumPy | Pandas | SciPy | PyTorch | Scikit-Learn