

Wei-Chun Tseng

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WORK EXPERIENCE

Micron Technology | Software Development Engineer

07/2024 – Present

- Developed systems for **probe data** collection, management, and processing to achieve product classification and increase production yield.
- Operated and maintained software for global manufacturing sites, managing over **1,200 Linux compute nodes** across worldwide locations.
- Optimized **ETL pipelines** from databases to web services, ensuring high data processing efficiency and accuracy.
- Designed a **web application** for data management, facilitating seamless cloud data and local data storage and transformation.
- Key Technologies:** C++, MSSQL, SQL, Linux, Azure, Docker, Jenkins, TypeScript, Angular.js.

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

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

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.
- Key Technologies:** JavaScript, Node.js, React.js, Smart Contract.

SKILLS

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