

Wei-Chun Tseng

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SKILLS

Programming: Python | JavaScript | C | C++ | SQL | HTML | CSS | Solidity

Knowledge: Data Structures and Algorithms | Object-Oriented Programming | Web Development | Machine Learning | Statistics

Technologies: Node.js | Express.js | React.js | FastAPI | Git | Linux | MySQL | MongoDB | NumPy | Pandas | SciPy | PyTorch | Scikit-Learn | Vite.js | Three.js | TailwindCSS

EDUCATION

Master of Science in Computer-Aided Engineering | National Taiwan University | Taipei, Taiwan | 2023 | 4.0 / 4.3 GPA

• **Relevant Courses:** Object-Oriented Programming, Data Structure and Algorithms, Machine learning and Deep learning, Computational Statistics.

Bachelor of Science in Civil Engineering | National Central University | Taoyuan, Taiwan | 2021

• **Five-time** recipient of the Academic Excellence Award.

EXPERIENCE

Research Assistant | E3 Research Group | Taipei, Taiwan | August 2023 – October 2023

- Designed a comprehensive strategy system with **Python** and **Statistics**.
- Assessed the impact of transitioning to electric vehicles on carbon reduction.
- Analyzed annual carbon reduction benefits until 2050 under various policy orientations.

Teaching Assistant | National Taiwan University | Taipei, Taiwan | August 2022 – February 2023

- Successfully led and instructed interactive classes with **over 60** engaged participants.
- Skillfully honed leadership and communication abilities in this impactful role.
- Instructed diverse subjects over 3 fields: **machine learning**, **data science**, and **economics** in energy sector.

PROJECTS

ML-training-dashboard | December 2023 – Present

- Created a user-friendly web service optimizing hyperparameter management in Machine Learning.
- Integrated functionalities for tracking hyperparameter history and visualizing learning curves.
- Employed **JavaScript**, **React.js**, **Node.js**, **Tailwind CSS**, and **Axios** to craft an intuitive frontend interface.
- Implemented robust server-side operations using **Python** and **FastAPI** for efficient backend logic processing.

Personal Website | https://wctseng.com | October 2023 – November 2023

- Designed a portfolio website using **React.js**, **Three.js**, and **Tailwind CSS** for styling.
- Implemented **Vite.js** as the development server for optimal performance.
- Implemented continuous integration and continuous deployment (CI/CD) using **GitHub Actions**.

Mapin | October 2023 – October 2023

- Developed a web app using **React.js**, **Express.js**, **MongoDB**, **Node.js**, and **Mapbox API**.
- Enhanced user engagement by enabling the sharing of **over 500** favorite places.
- Implemented a user-friendly feature enabling spot sharing, promoting seamless collaboration.

NTU CAECE NFT Certificate System | http://cert.caece.net/ | June 2022 – August 2022

- Utilized **React.js** and **Node.js** for seamless frontend and backend development.
- Integrated **Solidity** for efficient smart contract implementation.
- Incorporated the **InterPlanetary File System** for secure and distributed data storage.
- Operated within the **Linux** system environment to ensure robust system operations.

INVOLVEMENT

Publications and Awards | E3 Research Group | June 2021 – August 2023

- **Journal Publications:** 1 International journal paper (Q1 level) | 1 Domestic journal paper | 3 Conference papers
- **Conference Awards:** 1 Best Paper Award | 1 Excellence Award | 1 Merit paper award
- **Competition Award:** Honourable Mention/Finalist Team @ 2023 Taiwan Presidential Hackathon