Wei-Chun Tseng

Taipei, Taiwan ✉ wctseng99@gmail.com 📱 (886) 975 048 742 in/wctseng ☁ https://wctseng.com

SKILLS

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

Knowledge: Data Structures and Algorithms | Object-Oriented Programming | 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
· Created a portfolio website to display work, built with **React.js** using **Three.js** and **Tailwind CSS** for styling and **Vite.js** as a development server.

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 | 2 conference papers
· **Conference Awards:** 2 recipient of excellence awards | 1 recipient of merit paper award
· **Competition Award**: Honourable Mention | 2023 Taiwan Presidential Hackathon