

Will Cheng

B.S. in Computer Science, National Tsing Hua University
Sep 2024 – Jun 2028 (Expected)

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Technical Skills

- **Languages:** Python, JavaScript, TypeScript, C/C++, SQL
- **Backend & Cloud:** FastAPI, Flask, Node.js, GCP (Cloud Run), Docker, Firebase, MySQL, MongoDB
- **AI & Data:** Gemini SDK, OpenCV, MediaPipe, TensorFlow.js, NumPy, Pandas
- **Frontend:** React, Next.js, Tailwind CSS, GSAP

Experience

Research Assistant

July 2025 – Present

TYLin Lab, Department of Materials Science, NTHU

- Developed an AI Agent to assist in interpreting battery anode material properties, automating the manual inspection workflow.
- Integrated MobileNetV2 (CNN) to classify defects across 500+ microscopic images, significantly reducing analysis time for researchers.
- Utilized OpenCV for image preprocessing and augmentation to improve model accuracy on limited datasets.

Selected Projects

AI Job Hunter (Freelance Project)

Python, FastAPI, Selenium, GCP Cloud Run

An automated recruiting agent improving HR efficiency.

- Integrated Selenium for automated candidate data scraping and FastAPI for backend logic processing.
- Reduced manual resume screening time by approximately **95%** through automated scoring algorithms.

Ziwei Doushu Fortune Telling

Next.js, Gemini SDK, FastAPI

Modernizing traditional fortune-telling with Generative AI.

- Developed a blog system integrating Gemini API to programmatically format and interpret chart data.
- Automating the chart analysis process that typically takes 30+ minutes manually into seconds, providing instant user feedback.

DYNAMIC DIMENSION

TensorFlow.js, MediaPipe, JavaScript

Real-time gamified fitness application utilizing edge-side AI.

- Developed a real-time motion scoring system using MediaPipe and TensorFlow.js.
- Calculated cosine similarity of joint vectors to evaluate posture accuracy directly in the browser.

AI Odyssey

FastAPI, GSAP, TensorFlow.js

Gamified AI literacy platform validated with actual users.

- Built a full-stack learning platform serving 100+ students across 7 schools with 200+ hours of engagement.
- Combined GSAP animations with interactive AI modules to explain complex concepts to K-12 students.

Event Horizon Weather

Leaflet, Chart.js, React, FastAPI

Data visualization platform for meteorological analysis.

- Consumed and processed data from the NASA Power API to visualize historical weather patterns.
- Implemented interactive maps using Leaflet and statistical charts using Chart.js to present simplified forecasts.

Honors & Awards

- **Second Prize**, Hsinchu Policy Hackathon Nov 2025
- **Gold Medal (Global Finalist)**, NASA Space Apps Hackathon Kaohsiung Oct 2025
- **First Prize**, YIF Youth Hackathon Aug 2025
- **Special Prize**, Hualien Hackathon Jun 2025
- **Merit Award**, WPG Holdings "Tech-Crazy" AI Innovation Apr 2025
- **Bronze Award**, NTHU Sustainability Award (Student Group) Apr 2025
- **First Prize**, Samsung Solve for Tomorrow Nov 2024