SHIH-YING (CELINE) CHEN 陳詩瀅

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EDUCATION

National Tsing Hua University (NTHU), B.S. Chemical Engineering — Hsinchu, Taiwan | Sep 2023 – Jun 2027 (expected)
- Coursework: Accounting, Semiconductor Manufacturing, Energy & Mass Transfer, Process Design

Case Western Reserve University (CWRU), One-Year Exchange — Cleveland, USA | Aug 2025 – May 2026
- Business coursework: Entrepreneurial & Corporate Finance, Value Proposition & Business Communication
- English: **TOEFL iBT 118/120**

EXPERIENCE

SolarSDGs (加加減減股份有限公司), Startup Support Intern, Business Development — Hybrid | Aug 2025 – Oct 2025

Taiwanese cleantech startup selling anti-dust and anti-reflective coatings to existing solar farms
- Led outreach for the company's Gulf (GCC) expansion: mapped UAE solar developers and power-purchase-agreement providers (e.g., Yellow Door Energy) and contacted decision-makers ahead of GITEX Dubai
- Wrote the GCC partnership pitch around a clear customer pain point (dust cuts solar yield by up to 30%; cleaning is costly and water-intensive), proposing low-risk pilot trials of 10–50 panels
- Arranged and facilitated 2 meetings between the company and Taiwanese solar farm owners, preparing materials and handling follow-up

NTHU Startup Garage, Part-time Assistant — Hsinchu, Taiwan | Nov 2024 – Jul 2025
- Coordinated communication between 10+ startup teams and their mentors in NTHU's startup incubation program
- Built a live audience-voting website overnight using AI-assisted development; 80+ attendees voted in real time at the Startup World Cup event

LHA London Ltd, Staff Volunteer — London, UK | Jun 2024 – Jul 2024
- Supported daily operations of a high-occupancy international student residence, resolving resident requests and coordinating facility maintenance

COMPETITIONS & LEADERSHIP

DeployAI 2026 – 1st Place of 16 Teams, AI × business case competition (Celadon Partners, NTHU Garage) — Nov 2026
- In 11 days, worked through ~50,000 customer records, 8,000 support notes and two years of campaign data to address churn, upselling and acquisition for a Taiwanese telecom operator
- Turned the team's analysis into an NT$2.5M commercial plan of 8 experiments with conservative, base and upside returns and a 90-day rollout; presented it at the finals
- Set a rule for checking AI-generated findings under time pressure ("If this were wrong, would our recommendation change?") to decide what to verify and what to park

Plant Design Project – Team Lead, cumene plant in Aspen Plus, 5-person team — NTHU | Sep 2026 – Present
- Broke the project into work packages, assigned them to subteams and merged their results into one master simulation
- Designed the team's version-control and change-log system (named branches, shared register, one owner of the main version) so 5 people iterate in parallel without overwriting work; 9 main versions delivered

CWRU Case Competition, 4-person team — Cleveland, USA | Feb 2026
- Analyzed demographic data (schools, household income, age) to propose actionable plans for the Ohio government to reduce childhood obesity; presented recommendations to judges

RESEARCH & TECHNICAL PROJECTS

AI Agents for Hydrogen Process Optimization, NTHU lab (Prof. Yuan Yao) — Jul 2026 – Present
- Built a Python pipeline and AI tools that run and optimize an Aspen Plus simulation of a hydrogen plant; caught a seemingly validated result that came from a modeling error, traced the root cause and corrected it before it was reported
- Finalist, NTHU Undergraduate Academic Poster Competition (2025, 2026)
- **Other projects:** ChemE Car stopping mechanism, ±15 cm accuracy (CWRU AIChE team) · LabVIEW solar-tracking control, +70% energy vs. a fixed panel · Desalination electrode materials, 34 mg/g salt removal

SKILLS

- **Tools:** Excel, Python, Aspen Plus, LabVIEW, AI tools (Claude Code, MCP), Google Workspace
- **Languages:** Mandarin (native), English (fluent; one-year exchange in the US)