Ting-Hong (Elias) Shieh

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Open to hard, interesting work worldwide: remote, or relocation with visa sponsorship; available a month after an offer

Education

University of Illinois Urbana-Champaign — Online
Master of Computer Science, part-time — *May 2026 – Expected 2027*
- Coursework: Database Systems (A+)

National Taiwan University — Taipei, Taiwan
Bachelor of Science in Electrical Engineering — *Sep 2016 – Jan 2024*
- Coursework: Machine Learning (A+), Financial Management (A+), Probability and Statistics, Data Structures

Experience

Everrist International Co., Ltd. — Taipei, Taiwan
B2B Technical Product Planner — *Nov 2025 – Mar 2026*
- Prototyped search and auto-fill to replace a PDF lookup in SENKO's V-PRO IR LINK software; the manufacturer agreed to implement gas selection and automatic response-factor entry
- Sold the V-PRO detector on weight (360 g vs. a typical 700 g) in a product page and a magazine ad I built in HTML/CSS; the ad ran in an industrial-safety magazine
- Built normalized benchmarking and product-selection datasets across manufacturers and 840+ compounds

IPhO Tutor (BeShawn International) — Taiwan
Founder & Lead Instructor — *Nov 2021 – Nov 2025*
- Founded and ran a three-person olympiad physics company; students won IPhO Gold ×3, Silver ×1, and APhO medals
- Designed the curriculum, selected instructors, and wrote and typeset nine handbooks (1,699 pages)
- Built Taiwan's olympiad past-paper site (every paper since 1994, with my solutions), grown on organic search

Open Source

70 merged pull requests, 16 into NVIDIA NeMo | *Python, Go, TypeScript* | Full list — Aug 2026 – Present
- **NVIDIA NeMo Switchyard** (LLM routing): API-format translation, a routing log, stream fallbacks, path-scoped CI
- **RocketPy** (19 merged): a tube-fin aerodynamic surface, user-defined ensembles, two self-reported bug fixes, tests
- Also merged at Tesla (vehicle-command), Cloudflare (vinext), RAGFlow, AMD GAIA, 3Blue1Brown's manim, FinMind

Projects

Odyssey Bow Trial | *three.js, Cloudflare Workers, D1* — Jul 2026
- Archery game inspired by Nolan's *The Odyssey*, made in two days and tuned from playtests

Little House Diary | *Next.js, Sanity, Vercel* — Jul 2026
- A creator's walk-in portfolio site that she updates herself, with no code or deploys on my side

Competitions

2026 WorldQuant International Quant Championship (IQC) | *team of 4* — 2026
- Stage 2-1 leaderboard, out-of-sample included: 1st of 373 Taiwan teams, 32nd globally; 55 of our 60 final signals were mine

Kaggle competitions, NTU Machine Learning course | *Python, PyTorch* — 2021
- 3rd of 1,170 teams in Speaker Classification; top 2.5% in Transfer Learning, top 3.6% in CNN Image Classification

Skills & Distinctions

Programming: Python, JavaScript/TypeScript, HTML/CSS, SQL, C++, Git; working knowledge of Go and Rust
Web: React, Next.js, Astro, three.js, Cloudflare Workers and D1, Vercel, Sanity
Data & ML: NumPy, pandas, PyTorch, MongoDB, Neo4j
Languages: Mandarin Chinese (native), English (TOEIC 920; TOEFL iBT 100)
Distinction: Physics Olympiad National Training Camp Selection, Top 30 nationally (2016)