

Wei-Ning (Vernessa) Ma

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Summary

I'm a biomedical engineer who builds with AI coding tools. Over the past year I've taken more than twenty products from nothing to deployed. I write the spec, ship the rough version, then fix whatever real users break. Most of them are LLM products, so I've spent that year on the actual problem: models that go off-script, replies that truncate, costs that creep, and users who do things you never designed for. I'd rather have a rough prototype in someone's hands this week than a polished spec next month.

LLM Products I've Shipped

Xiaomian'ao 小棉襖, the bot that moved into my friends' group chat and never left · *Python* · *Flask* · *SQLite* · *Gemini* · *Render* – A chat assistant with **50+ commands**, scheduled jobs, persistent state, and **20+ external API integrations**. It answers questions, remembers things, and nags people about plans they made. – **In daily use by a real group since launch**. Every command was my idea; my users' contribution was doing things I never designed for and surfacing every failure mode in the process. That's where I learned that shipping is when the design work starts.

Murder in the Mist 霧中真相, a murder mystery where the suspects are AI and can lie to you · *React 19* · *TypeScript* · *PWA* · *Gemini* – No script. Players interrogate LLM-played characters who answer in the moment, so no two playthroughs match. To stop the model inventing evidence, every character carries its own brief in the prompt: who they are, what they know, what they're hiding. – Replies kept cutting off mid-sentence. The obvious fix was to pay for a bigger token limit. I read the logs instead, found a hidden setting inside the model was eating the output, and switched it off. **Complete replies, faster, and it cost nothing**.

Task Shredder, an AI task manager that interrogates you before it writes anything · *Next.js* · *Gemini* · *Notion API* – Most AI task tools generate a confident list from a vague brain-dump. This one **asks clarifying questions first** and only generates once it has enough. Human-in-the-loop by design, because a plausible wrong answer is a worse failure than one more question.

B-Battle turns your budget into an HP bar, with an AI companion reacting to every purchase. All public at **weining-ma.vercel.app**.

Experience

Xuantu AI, Overseas Operations Intern, PicWiz · Mar 2026 – Jun 2026

- Owned positioning for an AI photo-editing product entering the North American market, deciding which features a Western audience would value and how to describe them rather than carrying over the original messaging.
- Built a repeatable weekly decision framework from TikTok, Instagram and YouTube behaviour data and ran the whole pipeline alone: strategy, script, production. **Grew from launch to 5,500+ weekly views in month one, peaked at 51,000 views in a single month, and had one video reach 33,100.**

Independent Tutor, self-run practice · Sep 2021 – Present

- Built and ran my own tutoring business for nearly five years: **20+ concurrent clients**, each on a separate schedule against a fixed exam date, grown entirely by word of mouth with no marketing spend.
- Diagnosed where each student was actually losing points rather than where they thought they were, and rebuilt their plan around it. **Scores up by as much as 10/35 points.**

Astron Medtech, R&D Intern · Jul 2023 – Aug 2023 · Taipei

- Ran a competitive analysis across **50+ medical needle products**, identifying 5+ that met clinical requirements and surfacing viable alternative suppliers.

National Taiwan University, Graduate Researcher, Biomedical Engineering · Sep 2024 – May 2026 · Taipei

- Two years of bench research to lab SOPs, managing my own experimental timeline and troubleshooting protocol issues as they came up.

Skills

- AI product:** LLM application design · prompt and behaviour design · chat and agent-style flows · human-in-the-loop patterns · cost and latency trade-offs · failure-mode debugging
- Product:** 0-to-1 from problem to deployed · specs and user stories · scope cutting · competitive analysis · positioning
- Build:** ship production features with **Claude Code**, including debugging and small code changes, not just specs · REST APIs and third-party integrations · data models and SQL · React · TypeScript · Next.js · Python · Firebase · Git
- Languages:** Traditional Chinese (native) · English (professional, TOEIC 915, IELTS 6.5)

Education

B.S. Biomedical Engineering, Taipei Medical University · 2021–2024 · AI Micro-Program (machine learning, algorithms, data analysis)