# Chun-Yu (Echo) Shih

Product Engineer · React · TypeScript · Next.js · Postgres · Docker

Taipei, Taiwan (UTC+8) · Remote · APAC hours, Europe mornings or async · Open to full-time or contract
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## Summary

Product engineer on the software a business runs on: React, TypeScript, Next.js, Python, Postgres, Docker.
I build the frontend and the delivery path under it: the module template a team builds against, the release a non-engineer runs in five minutes.
I came to engineering from customer relations. I was the user first.

## Experience

**Lockerbie Technology** Dec 2024 – Jul 2026
Full-Stack Engineer, Internal Platform · Taipei, Taiwan

- **Wrote the whole Next.js / TypeScript frontend** on an early-stage internal platform for the **UK construction sector** (ISO 19650), one of two engineers. Wrote the spec and held scope to it; phase one shipped on its agreed July 2026 date.
- **A backend task went from a week to two days.** Every task used to start with an argument about where code goes. Refactored the backend into the team's **event-driven modular monolith**, seven business-domain modules over RabbitMQ, then set up the module template, the CI quality gate and a shared Postman collection.
- **A deployment went from a full day to five minutes, run by someone who is not an engineer.** It meant a non-technical stakeholder cloning the repo onto Ubuntu over SSH, fixing missing packages by hand. Replaced with a **build-once, promote-once release pipeline**: one `.env` and compose file, then `make run` pulls the image GHCR built and tagged on merge to main. Frontend and backend, staging and production.
- **Permission changes stopped being a redesign.** Scattered rules meant re-reasoning the whole flow. Designed one **role-to-capability map**: seven organisation-level and project-scoped roles into 26 capability flags. A new role is one entry read against the others, and super-admin derives from them, so it cannot drift. Services read a flag, never the rule. Behind a **BFF security boundary**: server-managed auth, centralised CSRF, no backend credentials in the browser.
- Diagnosed a **RabbitMQ RPC bug** where a stale, uninitialised consumer round-robined into login lookups and failed every user's first attempt; fixed with a fail-fast DB check before broker registration.

**SPIN.FASHION by Lablaco** Aug 2024 – Oct 2024
Full Stack Engineer & Founding Partner · Singapore · Remote

- Founding partner on the in-store Electron app; co-ran the scrum with the CTO. Shipped it by clearing **macOS code-signing, notarisation and auto-update**, and built a **blockchain payment checkout** on a third-party provider.

**Find Recruiter** Aug 2022 – May 2024
Software Engineer · Taipei, Taiwan

- Led the frontend of a **B2B and B2C recruitment and ATS platform** in React and Redux-Saga, two engineers under the CTO. Planned the TypeScript migration in steps so it shipped without breaking, authoring 100 shared components.
- Wrote the **Server-Sent Events** channel the frontend consumed AI-generated drafts through.

**Independent / Freelance Engineering**
Software Engineer · *Remote · 2020 – 2024 · side projects and short contracts*

- Built the Next.js frontend for a **Bitcoin coin-selection research tool** with a BDK core maintainer, July to August 2023.
- Bug fixing and UX on a **BigCommerce** storefront for Bdigital, June to August 2024, in vanilla JavaScript, HTML and CSS.

## Projects

**Clio**: salon operations platform, live since May 2025 · *Founder*

- Multi-tenant on **Postgres RLS** from day one. 603 clients and 2,694 service records, entered by hand by the owner
- CSV export of clients, visits and hair profiles, so her records stay portable, not locked in

**Financial Runway**: personal finance app, Flutter · *Founder*

- 6 languages and 6 currencies, built solo; live on the App Store

## Skills

**Frontend & UI**: React · TypeScript · Next.js · Design systems · TanStack Query · Zustand · Tailwind CSS · Redux · SvelteKit
**Backend & Data**: FastAPI · Python · Node.js · Postgres · ArangoDB (document + graph) · Supabase · RabbitMQ · SQLite
**Infra & Quality**: Docker · CI/CD · GitHub Actions · GHCR · AWS · Vitest · React Testing Library · pytest

## Education

CS50's Introduction to Cybersecurity, HarvardX · in progress, 2026
Front End Development Bootcamp, Institution for Information Industry, Taoyuan · Oct 2021 – Mar 2022
B.A. Italian Language and Culture, Fu Jen Catholic University, Taipei · 2018
**Languages**: Mandarin, Taiwanese (native) · English (working language, all roles) · Italian