

Angus Hsu

Software Engineer

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ABOUT ME

Full-stack engineer specializing in modern web apps, automation, and AI-powered tooling. I build end-to-end systems—from backend APIs and orchestration to polished React/Next.js interfaces—used by global teams. I focus on simplifying complex workflows through intuitive UX, workflow optimization and LLM integration (Model Context Protocol) to reduce friction in enterprise analytics and operations.

WORK EXPERIENCE

Full Stack Engineer, Cubewise **Jan 2022 - Present**
(End-to-end product development, AI-driven tooling, and data-workflow automation)

- Designed and developed a reporting product with a Flask backend and React frontend that consolidates multi-source data into interactive dashboards—delivering daily revenue, customer, and product insights while eliminating 10+ hours/week of manual reporting.
- Engineered an AI-powered analytics product with a React/TypeScript frontend and FastAPI backend, integrating Model Context Protocol to provide natural-language access to IBM Planning Analytics. Reduced query complexity by 80% and enabled 100+ non-technical users to access enterprise OLAP data effortlessly.
- Collaborated with UK engineering teams to create a scalable Next.js + Handsontable data tool supporting 100,000+ rows across 20+ columns, achieving a 60% improvement in processing speed and a 45% boost in productivity while replacing Excel-heavy workflows.

Software Engineer, EMQ **Aug 2019 - Jan 2022**
(Internal tooling modernization, automation, and system optimization)

- Modernized the internal web platform by migrating from jQuery to React and implementing Role-Based Access Control—improving performance, user experience, and secure access management for 100+ internal users.
- Developed a shared React component library with Storybook to standardize UI patterns across multiple internal applications, accelerating development and improving design consistency.
- Architected a containerized E2E testing environment using Docker, TestCafe, and AWS to automate regression testing—eliminating 1 hour of daily manual QA and catching defects earlier.
- Built an AWS SAM serverless job to automate daily exchange-rate retrieval and Google Sheets updates, removing manual data entry and ensuring real-time currency accuracy for internal operations.

SIDE PROJECTS

- **Lunar MCP Server** — Open-Source AI Tool Server (PyPI: **lunar-mcp-server**)
 - Engineered a Model Context Protocol (MCP) server enabling LLMs (e.g., Claude) to perform lunar calendar conversions and timezone calculations.
 - Architected type-safe tool handlers using FastMCP with structured data validation, ensuring reliable function calling for AI reasoning engines.
 - Published a production-ready package to PyPI with Docker containerization, demonstrating expertise in LLM tooling ecosystems and open-source distribution.
- **Self-Hosted Raspberry Pi Infrastructure:**
 - Deployed Dockerized React/Redux and Python services on a resource-constrained Raspberry Pi to host multiple production side projects.
 - Configured Linux networking and system hardening (including iptables raw tables) to secure the SBC and improve reliability.
- **EMQQQ - emqqq.com** (LINE AI chatbot):
 - Built an AI-powered LINE chatbot used daily.
 - Integrated weather APIs, lunar calendar logic, and holiday info.
- **Identique - identique.org** (ID validator):
 - Designed a fast ID validation system with instant server-side checks.
 - Built the complete validation module, including checksum logic and input verification.
- **FurMen - furmen.net** (Pet health platform):
 - Created a full pet health tracking platform (meds, appointments).
 - Improved data entry experience through simple, mobile-friendly UI.

SKILLS

- **Frontend:** React, Next.js, TypeScript, Tailwind, styled-component, Redux
- **Backend:** Node.js, NestJS, Python, FastAPI, Flask
- **DevOps:** Docker, AWS, CI/CD
- **AI / Data:** Model Context Protocol (MCP), Conversational AI integration
- **Databases:** PostgreSQL, MongoDB
- **Other:** Shell scripting, Automation E2E Testing (TestCafe, Playwright, Selenium), Linux system administration

EDUCATION

Master of Communication Engineering
National Taiwan University

2016 - 2020

Bachelor of Communication Engineering
National Chung Cheng University

2012 - 2016