

Jimmy Wang

Frontend Engineer | AI-Assisted Product Engineering

work@jimmychwang.com | portfolio.jimmychwang.com | GitHub | LinkedIn

Frontend product engineer with three years of experience delivering complex Web and cross-platform applications. Applies AI coding and agent workflows to specification, implementation, testing, and review while retaining human ownership of product and quality decisions.

Experience

TikTok / ByteDance

Sep 2024 - Jun 2026

Frontend Engineer

- Extended the US LIVE Auction App product-management framework with ReactLynx, TypeScript, and Zustand, integrating regular, auction, and sold-item lists plus event-driven order refresh; launched in March 2026.
- Delivered Creator Lead Management and enhanced LIVE Commission on a React + TypeScript agency platform; established common and regional modules for the US launch and later EU and South America adaptations.
- Used Trae in later LIVE development to assist feature implementation and testing; reviewed generated changes and validated them through cross-team integration and acceptance workflows to improve iteration efficiency.

PCI Energy Solutions

May 2024 - Sep 2024

Data Analyst

- Integrated and analyzed Texas and California electricity-market data, supporting data-processing and business-analysis workflows for power-sector clients.

KeyBridge Technologies

Sep 2023 - May 2024

Full-stack Engineer

- Built full-stack features for a spreadsheet-style lesson-plan editor and independently developed a Vue, Quasar, and SVG grid map editor for vehicle-training scenarios.
- Implemented viewport rendering with 10% overscan, rectangular bulk placement, and precision scaling; tested maps up to 1,000 × 1,000 cells.

Selected Projects

MCR Helper

Apr 2026 - Present

Independent Developer | Vite, React, Ant Design, Zustand, TanStack Router

- Reimplemented an open-source C++/Cocos2d-x tool as a bilingual Web product with themes, fan calculation, hand input, and in-person game records; approximately 20 local club players use the Alpha release and inform iterations.
- Used a Codex agent workflow spanning specifications, task decomposition, TDD, code review, and verification while retaining human ownership of product and quality decisions.

Puzzle and Key Universe Website

Jun 2023 - Present

Core Contributor | React, TypeScript, Python

- Contributed messaging, support tickets, hints, event-specific interactive puzzles, and selected Python adhoc state logic to an open-source Puzzle Hunt platform.
- Supported a recent event serving 700+ active teams and about 2,000 users; as one of three operators, participated in incident response and directly executed recovery for one extended outage.

Skills

Web / Product: React, TypeScript, JavaScript, ReactLynx, Vue, Zustand, GraphQL, Ant Design, Material UI

Product Experience: Responsive Design, i18n, Accessibility, Web Performance

AI-Assisted Engineering: Codex, Trae, Cursor, Specification-Driven Development, TDD, AI-Assisted Review

Education

Carnegie Mellon University

Jan 2022 - May 2023

M.S., Electrical and Computer Engineering

University of California, Santa Cruz

Sep 2017 - Jun 2020

B.S., Computer Science; B.A., Network and Digital Technology