

Pei-Hsin Wang

Frontend Engineer

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Frontend Engineer with 4 years of experience in React and TypeScript. Experienced in analyzing complex business rules, implementing automated testing, selecting state management solutions, and building user friendly web apps.

Technologies and Languages

Front-end: React, TypeScript, JavaScript(ES6), Liquid, Zustand, TanStack Query, React Hook Form, Zod
Testing: Jest, React Testing Library, MSW, Playwright, SonarQube, Visual Regression Testing
UI Style: MUI 、Tailwind CSS 、styled-components 、Sass 、HTML5 、CSS3
Deploy: Vite, Git, Bitbucket, Husky, Sentry

Work Experience

Software Engineer (Frontend) **Shopline** **2021.9 – 2025.8**

- **Cross-Framework Business Logic & Delivery:** Served as the frontend engineer for a promotional channel expansion within a hybrid frontend architecture(React and AngularJS). Investigated undocumented business rules and performed change-impact analysis, aligning requirements with Product, QA, BE, and POS teams.
- **Test Automation & Quality Improvement:** Led automated testing adoption across custom frontend applications using Jest, React Testing Library, and MSW for API mocking and integration testing. Increased test coverage to 80–90% and configured SonarQube for PR quality tracking. Expanded coverage with Playwright E2E testing and visual regression checks to detect UI issues earlier and reduce release risk.
- **State Management Architecture:** Evaluated Zustand and Redux based on project scale, state complexity, development speed, and boilerplate. Selected Zustand to centrally manage cross-page product, user, permission-based visibility, and UI state, reducing prop drilling and state synchronization complexity while enabling rapid team adoption and delivery.
- **Cross-Functional Collaboration:** Defined API contracts, request/response schemas, and TypeScript types with backend engineers before development, then validated integration flows early using MSW API mocks. Partnered with QA to align UI changes, acceptance criteria, and test cases. Broke down frontend feature work into vertical slices and aligned implementation through technical documentation and code reviews, enabling incremental delivery.

Japan Working Holiday Program **2025.9 – 2026.5**

- Worked at a ski resort in Niigata and in hospitality in Hakone, strengthening my Japanese communication skills.

Projects

DaoDao Edu (g0v Open Source Project) **2021 - 2023**

- Served as the Project Manager, coordinating project workflow with Trello, leading regular team meetings, and organizing offline self-directed learning events.
- Maintained the React + Redux frontend, fixing launch bugs, supporting feature maintenance, and collaborating with designers and developers to drive project progress.

Certifications

Japanese: Business-level (N1) English: Intermediate-level (TOEIC 735)

Education

B.A. in Japanese Language and Literature Soochow University, Taipei, Taiwan 2014 – 2018