

Zi-Hao Lin

Frontend Developer

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With the strong ambition to build impactful products, I have developed SaaS products from 0 to 1 and completed over 10+ projects. As an experienced engineer, I consistently evaluate user stories, code maintainability, scalability, timelines, and costs to provide my team with strategic ideation that ensures each step aligns with the ultimate business goals and delivers substantial value.

Skills

React | Next.js | JavaScript | TypeScript | Redux | Material UI | RESTful API | GraphQL | HTML | CSS | Git

Work Experience

3drens | Frontend Developer

— Aug 2023 ~ present

Worked closely with PMs, UI/UX designers, and Backend engineers in a fast-paced **Scrum** team.

- Built a logistics fleet management **SaaS** product **from 0 to 1** using **React, Redux, MUI**, and **SWR**, resulting in a 65% increase in operational efficiency.
- Revolutionized rendering speed by **90%** for thousands of data to ensure seamless interaction through the integration of **drag-and-drop** with **virtual lists**.
- Resolved compatibility issues across **100+** ERP systems by developing a field mapping feature using the **Factory Pattern**, effectively enabling streamlined integration into our platform.
- Automated the classification of thousands of daily orders into dispatch slips within one second, reducing manual planning time by **98%** based on predefined criteria such as region and capacity limits.
- Designed the E2E **I18n** process, leveraging **Lokalise** for collaborative development and **CI/CD** integration. Reduced I18n bundle size by 66% through dynamic fetching of language files.
- Reduced the algorithmic complexity **from $O(N^2)$ to $O(N)$** to optimize the rendering of markers and polylines on the map.
- Pioneered the adoption of **submodule** to enable code reuse across multiple repositories, significantly reducing redundancy and enhancing code maintainability.
- Authored **high-level design** documents detailing React component architecture, state management, and API interactions to facilitate team collaboration.
- Introduced **Vitest** for **Unit Test**, and implemented **Cypress** for **E2E Test**.
- Provided critical business insights by introducing **Google Analytics** to track feature usage.

TryTech | Co-founder & Full-stack Developer

— May 2021 ~ present

Provided international software development services, achieving a total revenue of over six million NTD.

- Built an **online event SaaS product** for an U.S. entertainment company. The platform seamlessly integrates performances, audience interaction, ticketing, and additional features.
- Built a **data visualization platform** for **Applied Materials Taiwan** to display real-time and historical electricity usage, with features enabling users to set alert thresholds.
- Built a fully-functional **e-commerce store** from scratch for an artwork company, implementing complex UI components, including **RWD** and dark mode.
- Tech Stack: **React, Next.js, MUI, Redux, Zustand, GraphQL**, PHP, MySQL, MongoDB, jQuery, React Native
- Featured projects are listed on [my website](#).

Education

National Taiwan University

— 2018 ~ 2020

MS Computer-Aided Engineering Division, Department of Civil Engineering

Published a journal paper "[Temporal image analytics for abnormal construction activity identification.](#)"

Certification

Microsoft Certified: Azure Fundamentals

— Jan 2024