

Ziyu (Zoe) Meng

Design Engineer / React, TypeScript, Design Systems

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I design and build product interfaces. Four years of frontend engineering plus an M.A. in Web Design, so I work from user flow through to shipped components instead of handing off in the middle.

EXPERIENCE

Full Stack Web Engineer (Contract) · MTI Corporation

Mar 2022 – Present

Materials science equipment · Richmond, CA

- Sole engineer on a 30K-product B2B site. Migrated it from Network Solutions to Shopify and built the Liquid storefront and Remix + Polaris admin apps from scratch.
- Replaced a manual Excel-and-email quote workflow after sitting with the sales team to see where they stalled. Designed a two-sided flow: a quote cart for buyers and one Polaris page where staff finish a quote with auto-filled email, live tax, and one-click PDF. Cut processing time by about 80%.
- Made ownership visible on every quote: reps appear as selectable chips, pre-selected from the buyer's request, so two reps no longer answer the same customer.
- Restructured the information architecture so buyers could tell where they were in a catalog too large to browse linearly: multi-level categories, breadcrumbs, A-Z sorting, and part-number search that tolerates typos ("IMCS 2000" finds "IMCS-2000A-LD").
- Built reusable Online Store 2.0 sections with schema-driven settings, so marketing can publish and restyle pages on their own without breaking the design.

Frontend Developer · Independent Projects

May 2020 – Feb 2022

- Marketing sites and real-time dashboards in React and Next.js (SSG/ISR). Cut LCP 25% with route-based code splitting and lazy loading.

SELECTED PROJECTS

TagWise AI · AI-generated SEO tagging for Shopify · [Case study](#)

2025

- Designed a human-in-the-loop staging flow after merchant conversations showed trust, not speed, was the adoption blocker. AI drafts land in an editable, visually distinct state; nothing writes to the live store until merchants confirm.
- Virtualized Remix dashboard holds 60fps at 100+ products with SEO scoring across 13 industry keyword lists. Optimistic UI cut perceived latency 40%.

AI Component Playground · text prompt to React component · [Case study](#) · [Live demo](#)

2026

- Self-initiated. Designed a two-phase streaming display so generation reads as legible progress rather than a flickering preview, with recovery for incomplete output. Next.js 14, TypeScript, Vercel AI SDK, Sandpack.

zoemeng.com · [portfolio and its design system](#) · [Design system](#)

2026

- Token-based color and type scale, documented React components, and reduced-motion support. An audit caught a failing gray, fixed to meet WCAG AA; full keyboard support; Lighthouse accessibility in the mid-90s.

SKILLS

Design: Figma (design-to-code) · design systems (Polaris, design tokens) · interaction design · wireframing and user flows · information architecture · WCAG AA · semantic HTML · ARIA · keyboard navigation

Frontend: React · TypeScript · JavaScript (ES6+) · Next.js · Remix · Redux Toolkit / RTK Query · GraphQL · HTML/CSS · Tailwind · Shopify Liquid · Core Web Vitals · virtualization · code splitting

Backend & tooling: Node.js · REST APIs · Shopify Admin API · Prisma · Drizzle · Jest / React Testing Library · Git, CI/CD · Claude Code · Cursor

EDUCATION

M.A. Web Design & New Media · Academy of Art University

2018 – 2020

President's Honor List. Coursework: UX principles, human-centered design, visual design and typography

Software Engineering Program · LaiOffer

2020 – 2021

470+ hours: data structures and algorithms core, plus two full-stack project practicums

B.A. English (Business English) · Sichuan University, Chengdu, China

Languages English · Mandarin (bilingual)