

Ziyu (Zoe) Meng

Front-End & UX/UI Developer | React, TypeScript & Design Systems

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SUMMARY

Front-end developer specializing in UX/UI, with 4+ years building web apps in React, TypeScript, and Remix, plus an M.A. in Web Design & New Media. Recently designed and built a B2B quoting platform on Shopify that cut quote processing time by 83%. I ship responsive, accessible web experiences end to end, from user flows and design systems to Core Web Vitals, comfortable in agile teams.

SKILLS

Frontend: React 18, TypeScript, JavaScript (ES6+), Next.js, Remix, React Router, State Management (Redux Toolkit, RTK Query, Context API), Hooks, GraphQL (Consumption), HTML5, CSS3, Tailwind CSS

Accessibility & Performance: WCAG, Semantic HTML, Core Web Vitals (LCP, CLS), Virtualization, Code Splitting, Lazy Loading, Optimistic UI

Design: UI/UX Design, Figma (Design-to-Code), Design Systems (Polaris), Wireframing & User Flows, Interaction Design, Visual Hierarchy, Responsive & Mobile-First Design

Testing: Jest, React Testing Library

Backend & Tools: Node.js, REST APIs, Shopify Admin API, Git, Prisma ORM, Drizzle ORM, AWS SES, Cloudflare Pages, Postman, CI/CD

WORK EXPERIENCE

Full Stack Web Engineer (Contract) - MTI Corporation

Mar 2022 - Present

Materials Science Equipment, Est. by MIT & UC Berkeley Researchers • Richmond, CA

- Joined when the site was on Network Solutions with no custom code. Migrated to Shopify and rebuilt both the customer-facing storefront (Liquid theme with JSON section schemas) and staff-facing admin tools (Remix + Polaris embedded apps) from scratch.
- Designed and built a two-sided quote system replacing a manual Excel + email workflow: a customer quote cart in the Liquid storefront, a staff admin in Remix + Polaris; server-side data fetching and parallelized API calls cut processing time by 83%.
- Redesigned the information architecture for 30K+ products using Shopify's Collection and Tag APIs, multi-level categorization, hierarchy-based breadcrumb navigation, and A-Z sorting for large categories.
- Rebuilt the Product Detail Page around user needs: accordion layout, wholesale tiered pricing, add-ons, cross-sell modules, staff-only notes, and purchase-gated manuals via the Shopify Customer ID API, fully responsive across breakpoints.
- Set up automated PDF quote generation with jsPDF, html2canvas, and AWS SES for email delivery, matching print output to the on-screen design.
- Wrote unit tests for the critical quote and checkout flows with Jest and React Testing Library.

Frontend Developer (Independent Projects) - Remote

May 2020 - Feb 2022

- Designed and built marketing sites and real-time dashboards with React, Next.js (SSG/ISR), and Google Maps API; reduced LCP by 25% through route-based code splitting and lazy loading.
- Designed and built a WordPress blog for a community organization: multi-level category structure, custom theming, and per-post commenting.

PROJECTS

TagWise AI — AI-Generated SEO Tagging App

2025

- Designed a human-in-the-loop staging workflow after merchant conversations showed trust, not speed, was the adoption blocker: AI-generated tags land in an editable, visually distinct staging state, and nothing writes to the live store until an explicit confirmation.
- Created a product dashboard with Remix and list virtualization to handle 100+ items at 60fps, with real-time SEO scoring across 13 industry keyword databases.
- Cut perceived latency by 40% using Optimistic UI patterns and Vite-based code splitting for the AI streaming flow.

AI Component Playground

2026

- Built a tool that generates React components from text prompts using Next.js 14, TypeScript, and Vercel AI SDK, with live preview via Sandpack.
- Designed a two-phase streaming display so generation reads as legible progress rather than a flickering preview, with error recovery for incomplete AI output and rate limiting.

EDUCATION

M.A. Web Design & New Media — Academy of Art University, San Francisco

2018 – 2020

Coursework: UI/UX design, interaction design, visual prototyping, coding fundamentals(HTML, CSS, JavaScript)

CERTIFICATIONS & LANGUAGES

Postman API Student Expert (2025) | Google Cloud Apigee Labs (2025) | SQL for Data Analysis, Coursera (2025) | Languages: English, Mandarin