

# Ziyu (Zoe) Meng

Frontend Engineer | React, TypeScript & Web Performance

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**Authorized to work in the U.S. No sponsorship required**

## SUMMARY

Frontend engineer with 4+ years of experience building web apps with React, TypeScript, and Remix. Most recently built a B2B quoting platform on Shopify that cut quote processing time by 83%. Focused on performance optimization and Core Web Vitals. Comfortable working in agile teams.

## SKILLS

**Frontend:** React 18, TypeScript, JavaScript (ES6+), Next.js, Remix, React Router, Redux Toolkit (RTK Query), Context API, Hooks, GraphQL (Consumption), HTML5, CSS3, Tailwind CSS, Responsive Design, Polaris Design System, Figma (Design-to-Code)

**Performance:** Core Web Vitals (LCP, CLS), Virtualization, Code Splitting, Lazy Loading, Optimistic UI

**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 built the entire frontend from scratch using Remix and Polaris Design System.
- Replaced a manual quote workflow (Excel + email) with a quote management app. Set up server-side data fetching and parallelized API calls, cutting quote processing time by 83%.
- Built a multi-level tagging and categorization system for 30K+ products using Shopify's Collection and Tag APIs. Added breadcrumb navigation based on product hierarchy and A-Z sorting for large categories.
- Rebuilt the Product Detail Page with accordion layout, wholesale tiered pricing, add-on products, cross-sell recommendations, staff-only internal notes, and purchase-gated product manuals using Shopify Customer ID API.
- Set up automated PDF quote generation with jsPDF, html2canvas, and AWS SES for email delivery, replacing a fully manual process.
- Added unit tests with Jest and React Testing Library, reaching 90% coverage on checkout flows.

### Frontend Developer (Independent Projects) – Remote

May 2020 – Feb 2022

- Built marketing sites and real-time dashboards with React, Next.js (SSG/ISR), and Google Maps API during a training program.
- Practiced performance tuning on these projects, reduced LCP by 25% through route-based code splitting and lazy loading.

## PROJECTS

### TagWise AI – AI-Generated SEO Tagging App

2025

- Built a staging system in React 18 that lets users compare original tags vs. AI-generated drafts before pushing changes through Shopify GraphQL API.
- Created a product dashboard with Remix and list virtualization to handle 100+ items at 60fps with real-time SEO score updates.
- 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.
- Handled streaming-to-editing handoff with a two-phase state model, plus error recovery for incomplete AI output and rate limiting.

## EDUCATION

### M.A. Web Design & New Media

2018 – 2020

Academy of Art University, San Francisco

## CERTIFICATIONS

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

**Languages:** English, Mandarin