

# Jaclyn Naomi Barrera

Frontend & Design Engineer

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## PROFESSIONAL EXPERIENCE

### Freelance Frontend & Design Engineer

Los Angeles, California

Independent

October 2025 - Present

- Built [Sound Mood Atlas](#), a full-stack data visualization app processing a 114,000-song dataset via a Node.js/Express ETL pipeline, PostgreSQL, GraphQL, and React/D3.js. Deployed on Vercel.
- Built [Resonance.World](#), an interactive 3D browser experience using Three.js and GSAP with an Express/SQLite backend, prototyped and iterated using AI-assisted development workflows in Cursor and Claude.

### Software Engineer, Developer Experience Team

Los Angeles, California

Thoughtworks

September 2023 - September 2025

- Sole frontend engineer on a greenfield test user dashboard for a U.S. federal agency, surfacing data across VA systems into a clean, navigable interface that gave 100+ engineers confidence in QA and testing across lower-level environments, eliminating weeks of manual setup and testing work per team.
- Owned the full frontend data layer, architecting UI patterns for filtering, pagination, and state management that made complex, inconsistent data from 6+ integrated systems navigable and legible to end users.
- Drove and led a full frontend migration from a Rails monolith to a React/TypeScript SPA, making the technical and product case based on UX improvements then owning implementation end-to-end.
- Partnered closely with the product designer, working directly in Figma to co-design UI, then owning full frontend implementation and bridging design intent to production code across biweekly stakeholder demos.
- Built background job workflows and async data pipelines using Redis, automating cross-service data flows and ensuring reliable data availability across environments.

### Software Engineer, Design System Team

New York, New York

Thoughtworks (Client: U.S. Dept of Veterans Affairs)

March 2023 - September 2023

- Joined a design system team in the final stretch to help ship a 100+ component React library and design token system used by 50+ engineers across 5+ teams building clinician-facing applications for a U.S. federal agency.
- Made independent design judgment calls daily in a designer-light environment, holding design coherence across the library without needing a designer in the loop for every decision.
- Introduced automated accessibility linting, shifting WCAG compliance from manual audits to automated enforcement in the developer workflow.
- Raised the engineering bar through code review standards, Storybook documentation, and component API design.

### Associate Software Engineer

New York, New York

Thoughtworks (Client: US Coalition on Sustainability)

January 2022 - February 2023

- Built full-stack features in React, TypeScript, Kotlin, and PostgreSQL for a production networking platform, growing the active user base from 1,200 to 2,000+ during my time on the project.
- Led the accessibility initiative: conducted audits, organized and prioritized the WCAG remediation backlog, introduced linters and automated checks, and presented findings to stakeholders, measurably improving the platform accessibility grade.
- Owned features end-to-end from data model through deployed UI with high autonomy on a 10-engineer team.
- Practiced TDD using Jest, React Testing Library, and Cypress, maintaining high test coverage throughout.

## SKILLS

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**Frontend:** React, TypeScript, JavaScript, Redux, Tailwind CSS, SASS, HTML5

**Backend & APIs:** Node.js, Ruby on Rails, REST APIs, GraphQL, SQL, PostgreSQL, Redis

**Design:** Design systems, design tokens, CSS custom properties, accessibility-first UI (WCAG), Figma

**Testing:** Jest, React Testing Library, Cypress, RSpec, TDD

**Infrastructure:** AWS (S3), Vercel, GitHub Actions, CircleCI, CI/CD, Docker

**Tooling:** Cursor, Copilot, Claude, Storybook

**Practices:** Full-stack ownership, stakeholder communication, accessibility advocacy, pragmatic architecture decisions

## EDUCATION

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### Flatiron School

New York, NY

Software Engineering Bootcamp - JavaScript, React, Redux, Ruby on Rails

### Manhattan College

Bronx, NY

B.A. Political Science & Communications