

Brian Manchester

Senior Product and Fullstack Engineer

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Product-minded senior engineer with a decade of experience building full-stack products, reusable systems, and production AI-enabled features. At SINAI, repeatedly served as project lead for increasingly important, revenue-enabling initiatives, aligning product, design, and engineering while remaining hands-on in architecture, prototyping, delivery, and human-reviewed AI workflows.

SKILLS

Languages and fullstack: TypeScript, JavaScript, React, Next.js, Node.js, Go, PostgreSQL/SQL, MongoDB, GraphQL, REST

Frontend and testing: CSS, styled-components, Tailwind, React Router, MUI, Vite, MSW, React Testing Library, Vitest/Jest

Engineering leadership: System design, composability, async systems, RFCs, mentoring, interviewing ICs and leaders

AI workflows: Codex, Claude, Cursor; spec-driven delivery, multi-model critique, parallel research, MCP integrations

EXPERIENCE

SINAI Technologies — Senior Software Engineer • Frontend Tech Lead

November 2022 – September 2026

- **AI-powered data ingestion:** Led a 10-contributor full-stack workstream that transformed inconsistent customer spreadsheets into structured carbon-accounting records through GraphQL APIs, a persisted state machine, OpenSearch-powered emissions-factor matching, and a user-facing AI chat; cut record-classification time by 80–90% across 500,000 purchasing records.
- **Utility data automation:** Extended that ingestion system beyond spreadsheets so connected utility accounts and uploaded bills could automatically generate electricity and other utility records as new bills arrived; normalized third-party webhook data into the same matching and record-generation pipeline, supporting \$1M+ in prospective sales opportunities.
- **Legacy modeling platform revival:** After a product pivot, reconstructed an undocumented legacy feature and led a Codex/Claude-reviewed RFC to redesign its data model for expanded decarbonization scenarios; generated a dependency-ordered PR stack, personally reviewed each change, and propagated corrections across the stack, enabling the connection of an already completed frontend prototype to persisted data.
- **Rapid product validation:** Built prototypes for customer validation, sales demonstrations, and technical discovery, giving product and design early evidence of customer value, technical feasibility, and key tradeoffs before larger investments; prototypes became production foundations or reference implementations.
- **Workflow and notification platform:** Built reusable, configurable workflows for carbon-accounting records and potential future resources in our system, with assignments, bulk updates, in-app/email delivery, real-time events, and scheduled jobs; helped drive growth in monthly active users.
- **Frontend quality and productivity:** Set shared practices and mentored 12 engineers; built a composable Vite/MSW/GraphQL test platform that roughly halved setup and network-mocking effort and enabled broader coverage; enforced TypeScript in CI, reducing production change failures 10%; led major React, React Router, and MUI upgrades that improved developer experience and unblocked newer packages.

Mural — Senior Software Engineer

May 2021 – November 2022

- **Rooms and Folders:** Led frontend delivery of a recursive hierarchy that let customers organize digital whiteboards at scale; mentored contributors and drove a reliable launch with immediate, broad adoption.
- **React modernization:** Evolved foundational application infrastructure from class components toward hooks, context, and TypeScript while preserving compatibility throughout the migration.

NDSL — Software Developer

November 2017 – May 2021

- Built fullstack systems across Go, Node.js, GraphQL, REST, SQL, and WebSockets; designed reusable Go data-access abstractions that replaced repetitive raw SQL with composable select and update operations.

EDUCATION

UNC Chapel Hill — Fullstack Web Development Certificate

Duke University — Master of Divinity, Magna Cum Laude

Biola University — BA Theology, Summa Cum Laude