

Charlie Barger

UI Engineer

UI Engineer with 4 years of experience designing and building web applications across healthcare, education, and behavioral research domains. Experienced in collaborating with clients, researchers, and stakeholders to translate complex requirements into intuitive user experiences. Skilled in React, TypeScript, design systems, and frontend architecture, with a passion for bridging design and engineering through scalable component libraries and thoughtful product design.

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WORK EXPERIENCE

Frontend Developer | UI Engineer Klein Buendel

06/2022 - Present

Denver, Co

Achievements/Tasks

- Led design and frontend implementation for multiple healthcare, education, and behavioral research applications, translating stakeholder requirements into intuitive user experiences.
- Developed data-driven web applications using React, TypeScript, React Query, Zustand, and Tailwind CSS to support participant engagement, survey collection, analytics, and research workflows.
- Built reusable component libraries, design systems, and token-driven UI foundations using Tailwind, Storybook, and Figma, improving consistency and accelerating development.
- Collaborated directly with researchers, clinicians, and clients to gather requirements, prototype solutions, and iterate on product experiences throughout the development lifecycle.

Coding Instructor Coding with Kids

10/2021 - 06/2022

Denver, CO

Achievements/Tasks

- Taught programming fundamentals to K-6 students through in-person and virtual instruction, adapting technical concepts for diverse learning styles.

SKILLS

React

TypeScript

Next.js

Tailwind CSS

React Query

Zustand

Storybook

Figma

Design Systems

Design Tokens

Playwright

Responsive Design

Accessibility

Vitest

Tanstack Router

PROJECTS

Speacs | Clinical Decision Support Platform

- Designed and prototyped application workflows in Figma, collaborating with clinicians to refine requirements and improve usability.
- Built and maintained a token-driven design system by extending Tailwind with semantic design tokens and reusable UI components.
- Developed and documented shared components in Storybook, improving consistency and accelerating feature development.

Project FRESH | Student Health Research Platform

- Developed a progressive web application (PWA) used by first-year college students to track alcohol use, sexual health behaviors, and wellness metrics through personalized surveys, feedback, and educational resources.
- Built role-based experiences for students, administrators, and super administrators, enabling researchers to analyze participant behavior, monitor study engagement, and export research data without manual reporting workflows.
- Developed interactive dashboards, behavioral visualizations, BAC calculators, and personalized feedback experiences that transformed longitudinal survey data into actionable health insights.

EzParent | Parent Training & Family Education Platform

- Developed a web-based parent education platform delivering learning modules, assessments, video content, and progress tracking for evidence-based parenting interventions.
- Built administrative dashboards and reporting tools that enabled facilitators and researchers to monitor participant engagement, program completion, and intervention outcomes.
- Collaborated directly with clients and stakeholders to define requirements and deliver features supporting ongoing grant-funded research and educational programs.

FitBrothers | Health & Wellness Research Platform

- Developed a health and fitness platform that integrated Fitbit data to provide personalized dashboards, activity tracking, and goal-based progress monitoring.
- Built challenge, goals, and health planning features that enabled users to participate in cohort-based fitness programs and track performance against peers.
- Implemented an MDX-powered content library delivering educational fitness resources, training guidance, and wellness content directly to program participants.

EDUCATION

Bachelor of Fine Arts, Studio Art Florida State University

05/2019