

# ALLEN WALKER

## Senior Frontend Engineer | React, TypeScript & Frontend Architecture

Denver Metropolitan Area | Remote | [allen\\_walker3@pm.me](mailto:allen_walker3@pm.me) | [buildwithallen.com](http://buildwithallen.com) | [LinkedIn](#) | [GitHub](#)

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### SUMMARY

Senior frontend engineer with 20+ years of software engineering experience, including 12+ years delivering React-based education products at Pearson. Leads architecture and delivery for React/Redux applications, mentors engineers, establishes coding standards, and partners with UX and backend teams. Recently introduced repository-level guidance and Figma MCP workflows that keep AI-assisted changes aligned with production architecture.

### CORE SKILLS

- **Frontend:** JavaScript, TypeScript, React, Redux, React Native, HTML, responsive CSS, Sass, Tailwind CSS, CSS Modules, Styled Components
- **UI quality:** Figma design implementation, semantic accessibility, WCAG, ARIA, keyboard navigation, screen-reader support
- **Testing and tooling:** Jest, Vitest, React Testing Library, Playwright, Webpack, Vite, Git
- **Architecture and leadership:** Frontend architecture, state management, coding standards, feature decomposition and estimation, implementation leadership, code review, mentoring, Scrum/Agile
- **APIs and platforms:** REST, GraphQL, Node.js, Ruby on Rails, Python, FastAPI, SQL, Docker, AWS, Google Cloud
- **AI-assisted engineering:** Claude Code, Codex, Model Context Protocol (MCP), repository-level architecture specifications

### PROFESSIONAL EXPERIENCE

#### Pearson Learning Solutions - Software Engineer III (Senior Frontend Engineer)

Denver Metropolitan Area

May 2014 - Present

- Lead frontend implementation on a five-engineer product team comprising two frontend and three backend engineers; break features into tasks, estimate effort, and guide work through delivery.
- Own and evolve the React/Redux architecture and coding standards for Live Response, Pearson's real-time classroom assessment application with a user community of more than 1,000 higher-education students and instructors.
- Design and implement instructor and student workflows, including classroom geofencing enforcement, frontend login flows and authorization-aware UI, and a client polling mechanism for near-real-time graded-question updates.
- Mentor two engineers through implementation guidance, merge-request review and approval, written feedback, and direct coaching on Live Response's architecture and development conventions.
- Partner directly with a UX designer using Figma to translate approved designs into responsive, accessible React interfaces.
- Create repository-level architecture guidance in AGENTS.md, CLAUDE.md, and SPEC.md, and configure authenticated Figma MCP access in Claude Code to produce production React components while preserving the application's React/Redux conventions.

## Pearson Learning Solutions - Additional Products

- **Freehand Grader:** Integrated a third-party math editor into the frontend and routed its MathML output to an existing Pearson scoring engine for analysis.
- **Learning Catalytics:** Built a background Rails notification service that evaluated data across multiple database tables and delivered email notifications for the interactive student-response platform; also contributed to its jQuery-based frontend.

## CabForward - Ruby on Rails Consultant / Architect

Austin, Texas

May 2012 - May 2014

- Architected and developed Ruby on Rails applications in close collaboration with the company's founder.

## Selected Concurrent Contract Engagements

Multiple clients

2008 - 2011

- Built Pogo Mobile's Rails/jQuery administration portal, including user authentication and MySQL-backed management workflows.
- Provided Rails development and mentoring at NocPlace; built iLoop Mobile's Rails/YUI analytics application, database schema, and data importer.
- Delivered additional Rails and Java software for RoyaltyZone, Home Depot, and Molecular Imprints, including enterprise change-management features and a Java Swing/Tcl/Tk interface for hardware tools.

## Drillinginfo - Java Software Developer

2004 - 2006

## SELECTED PROJECT

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### Tunearby - Solo Developer

- Built the original Radio Stations Near Me independently in React Native before modern AI coding assistants, then completed a ground-up rebuild and renamed it Tunearby using an AI-assisted development workflow across iOS, Android, and the web.
- Built the mobile applications with React Native and Expo and the web application with React; both ship the FCC AM/FM station catalog locally and query it with SQLite, including WebAssembly SQLite in the browser. [iOS](#) | [Android](#)
- Designed the product to work offline without an account or backend while presenting nearby stations by distance across mobile and responsive web interfaces.

## SPEAKING

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ReactDenver: "Building Android and iOS Apps Using React Native and Expo"

## EDUCATION

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**University of Texas at Austin, McCombs School of Business** | Master of Business Administration, Finance | 2006

**University of Texas at Austin** | Bachelor of Science, Computer Science | 1998