

# Tim Harding

Product-Focused Frontend Engineer

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## Professional Summary

Frontend Engineer with extensive experience architecting sophisticated web applications and AI-powered interfaces. Specialized in complex browser integration patterns and cross-origin solutions, delivering production-ready features that blend advanced technical implementations with intuitive user experiences. Background in Applied Mathematics bringing strong analytical thinking to engineering challenges. Proven track record of taking projects from concept to launch, including an embedded commerce platform and AI shopping assistant that drove significant revenue growth. Strong focus on TypeScript/React development with excellent product intuition and design sensibilities, complemented by expertise in design systems and cross-functional collaboration.

## Technical Skills

Core Development: TypeScript, JavaScript (ES6+), Node.js, HTML5, CSS3, Webpack

Frontend & UI: React, Next.js, Remix, React Router, React Aria, Motion, Tailwind CSS, PostCSS, Figma, Apollo

Backend & Infrastructure: PostgreSQL, MongoDB, Express.js, GraphQL, RxJava, REST APIs

Development Tools: Git, Cypress, CI/CD, NPM Package Development

## Professional Experience

**Senior Software Engineer** | Curated

January 2021 – Present

- Led development of an AI-powered shopping interface integrating LLM capabilities for personalized recommendations, delivering 25% revenue increase
- Designed and implemented real-time chat UI with custom markdown rendering system, supporting dynamic content rendering and streaming AI responses
- Led development of an embedded commerce platform with JavaScript SDK and React application, enabling third-party sites to integrate live shopping via iframe architecture, driving 7% revenue increase in A/B testing:
  - Architected secure iframe infrastructure with novel cross-origin messaging system for bidirectional, promise-based communication
  - Designed and implemented custom cookieless token management protocol leveraging messaging system and browser APIs
  - Built dynamic UI theming system powered by cross-origin state synchronization
- Maintained, documented and distributed core npm packages that accelerated team-wide development:
  - Component library built on react-aria focusing on accessibility and user experience
  - Atomic state management system for predictable application state
  - Build system integrating Tailwind, PostCSS, and CSS modules
- Engineered a product catalog management interface handling 500k+ items, enabling non-technical teams to manage complex product data and relationships

**Senior Specialist, Product Operations** | Collective Health

April 2018 – May 2020

- Developed Python automation suite integrating healthcare EDI protocols and Selenium, reducing data validation effort by 80% while serving as technical liaison between Development and Client Success teams

**Data Analyst, Professional Services** | Castlight Health

September 2015 – April 2018

- Led integration of Fortune 50 client health plan data into navigation platform, implementing SFTP configurations and automated validation processes

## Personal Projects

**Wedding Website** | ellieandtim.com

- Designed and developed a full-stack Remix application featuring Motion animations and responsive layouts, including an intuitive RSVP & guest data management system using Supabase/PostgreSQL and Prisma ORM

## Education

**Brown University** | Bachelor of Science in Applied Mathematics-Economics

2011 – 2015