

# DREW T ERNST

## FRONTEND ENGINEER | SOFTWARE DEVELOPER

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Detail-oriented Frontend Engineer specializing in React and Vue.js, with a track record of building production-ready applications that solve complex business logic. Architected the 'ISP Assistant Pro'—a Zero-Footprint Logic Engine that ensures Missouri state audit compliance through precise clinical narrative validation. Expert in responsive design, state management, and API integration, with a focus on writing clean, maintainable, and scalable code.

### TECHNICAL SKILLS

**Frameworks:** React (Hooks, Context API), Vue.js (Composition API, Vuex), Next.js

**Styling & UI:** Tailwind CSS, Bootstrap, Material-UI, Sass, Responsive Design, Mobile-First

**Tools:** Git/GitHub, VS Code, npm/yarn, Webpack, Vite, Agile/Scrum

**Languages:** JavaScript (ES6+), TypeScript, HTML5, CSS3, SQL

**Backend & APIs:** Node.js, Express.js, Firebase (Firestore, Auth), RESTful APIs

### FEATURED PROJECT

#### ISP Assistant Pro – Clinical Narrative Calculator

Marion County DDSD | 2026

[dte-84.github.io/case-study-isp.html](https://dte-84.github.io/case-study-isp.html)

- **Architected a Zero-Footprint Logic Engine** using advanced Vanilla JavaScript to validate Missouri-compliant narratives, achieving 100% adherence to state audit standards and eliminating rejected plans.
- Developed a responsive UI pre-loaded with state-approved active verbs (Model, Facilitate, Educate), reducing plan revision cycles by 40% for case managers.
- Implemented complex validation rules and modular logic to handle high-stakes clinical documentation requirements.

### PROFESSIONAL EXPERIENCE

#### Frontend Developer & Software Engineer

Self-Employed | 2025 – Present

- Engineer custom web applications using React (Hooks, Context API) and Vue.js (Composition API), focusing on component-based architecture and reusability.
- Translate complex UI/UX designs into responsive, mobile-first interfaces using Tailwind CSS and SCSS, ensuring high performance and cross-browser accessibility.
- Integrate RESTful APIs and Firebase (Firestore, Auth) to build real-time, data-driven applications with secure authentication and real-time data sync.
- Optimize performance through code splitting, lazy loading, and efficient state management to significantly reduce load times and improve user experience.
- Manage the full software development lifecycle using Git version control and Agile/Scrum methodologies from requirements gathering to deployment.

### EDUCATION & TRAINING

#### Frontend Simplified Bootcamp

Mentored by David Bragg | 2025

Focused on Production React, advanced JavaScript patterns, state management, and performance optimization.

#### Bachelor of Communication

Quincy University | GPA: 3.8 | 2011–2012

#### Bachelor of Marketing

Culver-Stockton College | GPA: 3.8 | 2002–2005