

Drew T. Ernst

Frontend Product Developer · UI/UX Engineer

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PROFILE

Detail-oriented Frontend Product Developer with deep expertise in React, Vue.js, and TypeScript. Proven track record building production-ready, HIPAA-compliant applications that solve complex business logic and high-stakes compliance requirements. Skilled at translating sophisticated UI/UX designs into responsive, mobile-first interfaces — and bringing a business-first lens to every engineering decision, shaped by a prior career in operations and leadership.

TECHNICAL SKILLS

Core Technologies	React (Hooks, Context API), Vue.js (Composition API, Vuex), Next.js, TypeScript, JavaScript (ES6+), Java, Python, HTML5, CSS3
Data & APIs	SQL, RESTful APIs, Firebase (Firestore, Auth), Socket.io, JSON, XML
Design & UI	Tailwind CSS, Bootstrap, Material-UI, Sass/SCSS, GSAP, Figma, Responsive & Mobile-First Design
Tools & Backend	Git/GitHub, Node.js, Express.js, Chart.js, Vite, .NET Framework
Practices	Agile/Scrum, Lean Methodology, HIPAA-Compliant Architecture, Performance Optimization, Code Splitting, Lazy Loading

SELECTED PROJECTS

PCSP Assistant Pro — Marion County DDSD, Missouri DMH

Lead Frontend Product Developer · 2026

The most technically and ethically demanding project in this portfolio. Marion County DDSD, a Missouri state agency, needed a documentation tool that would allow case managers to write HIPAA-compliant clinical care narratives — with zero risk of sensitive data being stored, transmitted, or exposed. The solution had to meet Missouri DMH audit standards precisely, or plans would be rejected at the state level.

- Architected a 'Zero-Footprint' application — all processing runs client-side with no data ever written to a server, database, or external service, satisfying strict HIPAA compliance requirements by design.
- Built a modular Vanilla JavaScript Logic Engine that validates complex clinical narratives in real-time against state audit criteria, eliminating plan rejections across the agency.
- Developed a responsive UI pre-loaded with Missouri-approved active verbs and phrasing patterns, cutting plan revision cycles by 40% and dramatically reducing documentation turnaround for case managers.
- Delivered a tool that operates entirely within a browser — no install, no account, no footprint — making adoption frictionless across a distributed, non-technical workforce.

SiKnight Game Hub — Interactive Gaming Platform

Frontend Developer · 2025–2026

A full-featured interactive gaming platform built to deliver a rich, real-time user experience — combining live data, dynamic visualizations, and a polished interface that scales cleanly across devices.

- Engineered real-time data feeds and live game state management using React and Socket.io, ensuring a smooth, responsive experience even under high update frequency.

- Built dynamic data visualization components with Chart.js to surface stats and leaderboards in an engaging, scannable format.
- Designed and implemented a component library using Tailwind CSS, establishing consistent visual patterns and accelerating feature development across the platform.

Tony's Landscaping LLC — Visual Storytelling & Lead Generation

UI/UX Developer · 2025

Re-imagined a local service business as a premium visual brand — taking the project from initial concept to a live production site with a clear focus on craftsmanship, storytelling, and lead conversion.

- Designed and built a custom Before/After Image Slider component that lets visitors drag to reveal project transformations, providing direct visual proof of work and measurably increasing engagement.
- Architected the full site on Tailwind CSS with a Firebase backend, enabling real-time and secure lead capture that feeds directly into the business's sales workflow.
- Developed an interactive Project Scope Estimator tool — allowing prospective clients to self-qualify and arrive at the inquiry stage already informed, reducing friction in the sales conversation.

EDUCATION & TRAINING

Frontend Simplified Bootcamp

Completed 2025

An intensive, project-driven program focused on production-grade React development, advanced JavaScript patterns, and modern frontend architecture. The curriculum emphasized real-world application over theory — covering performance optimization, code splitting, lazy loading, and component design at scale. Graduates are expected to ship production-quality code from day one.

Advanced Frontend Development & Software Engineering Mentorship

One-on-one with David Bragg · 2025

Worked directly with an experienced senior engineer in an intensive mentorship focused on the gap between bootcamp-level skills and professional production standards. Sessions covered system design thinking, scalable architecture patterns, code review discipline, and the engineering practices that distinguish junior from senior-level work. This engagement had a direct and lasting impact on how I approach problem-solving, code organization, and technical communication.

Bachelor of Communication

Quincy University · GPA: 3.8

Bachelor of Marketing

Culver-Stockton College · GPA: 3.8