

BRAD LARSON

PRINCIPLE SOFTWARE ENGINEER

DETAILS

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SKILLS

React

● ● ● ● ●

Nextjs

● ● ● ● ●

Threejs

● ● ● ● ●

D3js

● ● ● ● ○

Zustand

● ● ● ● ●

Astro

● ● ● ● ○

Redux / RTK

● ● ● ● ○

GSAP Greensock
Animation Platform

● ● ● ● ●

Framer Motion

● ● ● ● ○

Apollo

● ● ● ● ○

LANGUAGES

Javascript

Typescript

HTML/CSS/SCSS

GraphQL/Rest

Nodejs

PHP

PROBLEM SOLVING THROUGH CREATIVITY

Throughout my career, I've embraced problem-solving through creativity, taking on various roles but most recently focusing on developing complex 3D visualization applications and full animation platform systems. I thrive on challenging projects and love being the bridge bntween designers and developers, ensuring a seamless and efficient process that brings innovative ideas to life.

My creative approach to problem solving extends beyond technical solutions. With an art and technical background, paired with the values I hold as an Eagle Scout—trustworthiness, honesty, and dedication—I consistently strive to deliver high-quality, efficient solutions. I specialize in supporting teams with internal tools and platforms that boost productivity, foster collaboration, and streamline the development process.

EXPERIENCE

Slingshot Aerospace | Software Engineer

I collaborated with the software team to enhance and update Slingshot Aerospace's internal 3D satellite orbit management application. This project involved leveraging cutting-edge technologies to improve the visualization and functionality of complex orbital data, providing more accurate and interactive insights for internal users.

Key technologies utilized included React for building dynamic user interfaces, Three.js and react-three-fiber for rendering intricate 3D models, and Zustand for efficient state management. My contributions involved implementing new features, optimizing performance, and ensuring a seamless integration of 3D assets, ultimately enhancing the application's overall user experience and interactivity.

NexLab Weather | Principle Software Engineer

At NexLab Weather, part of the College of DuPage, I am leading a comprehensive UI/UX refresh of their legacy web application, which hadn't been updated in over 20 years. My role involves collaborating with NexLab's development team to modernize the platform, educating them in contemporary web design principles and best practices. We're transitioning the tech stack to React, Next.js, and Strapi, ensuring the site is intuitive and user-friendly for students, staff, and the broader public interested in weather forecasting.

In addition to redesigning the site's interface, I am responsible for training the development team on modern technologies and establishing a scalable tech stack. I also work closely with stakeholders to align design objectives with organizational goals, with an added focus on increasing donations and funding to support the site's long-term sustainability.

BannerWave LLC | CTO

At BannerWave, I play a key role in transforming the company's technical infrastructure, leading the development of DevOps processes to streamline operations and significantly improve efficiency. I manage the implementation of complex platforms, delivering cutting-edge interactive experiences and innovative advertising solutions tailored to our clients' needs. My focus on optimizing development and deployment pipelines ensures smooth project execution and enhances the company's ability to deliver high-quality services.

As CTO, I oversee both strategic planning and day-to-day technical operations, guiding the company's technology roadmap and ensuring alignment with business goals. I develop internal tools and platforms that empower our teams, fostering collaboration and boosting productivity. With a commitment to continuous improvement and staying ahead of industry trends, I drive innovation and position BannerWave as a leader in the interactive advertising space.