

Joel Zayas

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PROFESSIONAL SUMMARY

Senior Front-End Engineer with 10+ years of experience architecting scalable, high-performance web applications. Skilled in modern JavaScript libraries and React, building rich user interfaces through a component-based development approach with a focus on web compliance, semantic HTML/CSS, and performant JavaScript. Proven track record leading and mentoring small engineering teams, fostering inclusive and collaborative environments, and guiding pragmatic technical decisions that balance speed, scalability, and customer value. Passionate about delivering customer-driven solutions that streamline workflows, enhance usability, and drive measurable impact across diverse industries.

WORK EXPERIENCE

Senior UI/UX Engineer, MatrixSpace

January 2026 – Current

- Owned the end-to-end UI/UX architecture and delivery lifecycle for next-generation edge-to-cloud web products, leading design, development, and deployment from concept through post-launch optimization, driving new customer acquisition and sales leads that projects to out perform our year-over-end targets by over 200%.
- Architected and maintained a scalable, reusable component library in React and TypeScript, used across a broad portfolio of product lines, built with Storybook and a custom NPM registry, increasing engineering throughput and raising open feature-development pull requests to release branches by over 50%.
- Directed the design-to-production workflow for new features, prototyping in Figma to company branding standards and presenting directly to stakeholders, ensuring visual consistency and faster stakeholder buy-in before development.
- Integrated frontend applications with backend and third-party services, implementing RESTful APIs, Node.js services, and OAuth-based authentication, delivering secure, production-ready user workflows.
- Built real-time data visualization and dashboard experiences (maps, charts, radar, sensor telemetry) using D3.js and Mapbox, giving users actionable insight into live radar data.
- Established and enforced performance, accessibility, and cross-browser/device standards across the product suite, through systematic testing and optimization practices, ensuring a reliable experience at scale.
- Mentored junior engineers and set frontend technical direction, through code review, pairing, and cross-functional collaboration with backend, product, and AI platform teams, raising code quality and team velocity while keeping design and functionality aligned org-wide.

Senior Front-End Developer, Emulate Bio

July 2024 – January 2026

- Engineered the development of native desktop applications, including a system embedded UI, for producing and managing biological experiment data, used for researching and treating health and disease.
- Worked closely with designers to create prototype-to-code designs using Figma, converting layouts into production ready code.
- Monitored and triaged production issues across desktop and embedded applications using Sentry, proactively identifying and resolving bugs before they impacted researchers, improving reliability of time-sensitive experiment data capture.
- Led and mentored a team of front-end developers to deliver a cross-platform desktop application using React, TypeScript, and Electron, achieving 100% compatibility across Linux, Windows, and macOS, while accelerating development by 40% through component-based architecture and a test-first development process.
- Participated in an on-call rotation providing technical support during critical biological experimentation windows, troubleshooting hardware/software issues in real time, ensuring uninterrupted data capture and minimizing downtime during time-sensitive research operations.
- Developed a reusable React component library using development patterns for optimization (render props, derived state, context patterns), cutting UI development time by 50% and minimizing our codebase by over 30%.
- Created a Node.js web server using Express.js by configuring a RESTful API, for interacting with an SQLite database, for managing and storing experiment data as well as synchronizing hardware state.
- Developed real-time desktop and embedded application data management streams using WebSockets, communicating with hardware running ROS2, managing communication payloads to / from ROS nodes, enabling state synchronization between hardware and UI, ensuring seamless data flow for critical operations.

Senior Front-End Developer, 829 Studios**March 2023 – September 2023**

- Contributed towards the development of a proprietary component-based library for developing web applications for a variety of clients, streamlining development processes and reducing time to production by over 30%.
- Built interactive data visualization dashboards integrating Salesforce and HubSpot APIs, processing 10,000+ customer records improving client data insights and reducing manual reporting by 75%.
- Designed layouts and prototypes using Figma and Adobe XD, exporting designs into development ready design systems, used for production.
- Refactored 5+ legacy applications using DRY principles and modern JavaScript patterns, achieving 90+ Lighthouse performance scores, reducing page load times by 60%, and increasing user engagement metrics by 25%.

Senior Front-End Developer, Boston Digital**January 2021 – March 2023**

- Spearheaded a React component library initiative for Drupal, WordPress, and Contentful theme development, accelerating build times by 60% across 8+ CMS projects and reducing theme customization from 5 weeks to 3 weeks per client.
- Delivered 8+ responsive web applications across healthcare, finance, and e-commerce sectors, achieving WCAG 2.1 AA compliance and 90+ Lighthouse accessibility scores, while maintaining sub-2s load times on mobile devices.
- Collaborated with UX/UI designers and product managers in agile sprints to translate Figma designs into production-ready React components, reducing design-to-deployment cycles from 3 weeks to 5 days through streamlined handoff processes.
- Designed and executed A/B tests on landing pages for email marketing and social media campaigns, using Google Analytics to measure customer performance and iterate on page variants, driving higher conversion and engagement while improving downstream conversion through checkout.

Senior Web Developer, Sametz Blackstone Associates**April 2012 – January 2021**

- Developed a proprietary front end component library, using the Bootstrap CSS framework, for initializing projects rapidly.
- Developed custom web applications using React.js, for enhancing custom built WordPress themes and their functionality.
- Developed custom code deployment pipelines using CI tools such as Jenkins and DeployBot, using a trunk based Git workflow.
- Configured server side hosting for WordPress and Drupal sites, using a LAMP stack.
- Configured and developed headless WordPress applications using a MERN stack.
- Assisted with managing timelines and budgets, leading scrum meetings for development sprints.

SKILLS**Languages:** HTML, CSS, JavaScript, TypeScript, Tailwind, PHP**Frontend Frameworks & Libraries:** React, Next.js, Astro.js, Vue.js, Electron**UI & Visualization Libraries:** Storybook.js, Material UI, Radix, D3.js, Chart.js, Mapbox**Backend & API's:** Node.js, Express.js, RESTful API's, WebSockets, OAuth, ROS2**Design Tools:** Figma, Adobe XD**State Management:** React Context, Redux, Zustand**Versioning & CI/CD:** Git, GitHub, BitBucket, Jenkins**Databases:** MySQL, Postgres, SQLite, MongoDB**CMS Platforms:** Drupal, WordPress, Contentful, Strapi,**Hosting & Deployment:** Vercel, Netlify**Testing & Quality:** Jest, Vitest, Playwright, Google Analytics, Lighthouse**EDUCATION****Bachelor of Science, Digital Media, Full Sail University****June 2006**