Bashu Bisht

Front End Engineer

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Summary

Front End Engineer with 5+ years of experience in designing and developing secure, scalable, and high-performance web applications using React.js, TypeScript, Redux Toolkit, and modern front-end ecosystems. Proven success in building complex dashboards, real-time data visualizations, and responsive UI components for finance and banking applications at JPMorgan Chase. Adept at migrating legacy systems to React 18 and Next.js, integrating RESTful and GraphQL APIs, and optimizing performance with CI/CD pipelines using GitHub Actions and Jenkins. Strong expertise in WebSockets, D3.js, Highcharts, Tailwind CSS, and cloud deployment on AWS and Azure. Deep understanding of WCAG compliance, OWASP security practices, and regulatory standards like SOX, GDPR, and FINRA. Experienced in Agile/Scrum, TDD, and cross-functional collaboration with designers, developers, and quants. Passionate about clean code, test coverage, and delivering seamless user experiences across platforms and devices.

Experience

JPMorgan Chase & Co, USA | Front End Engineer   **Jan 2024 - Current**

- Developed and maintained secure, responsive front-end applications using React.js, TypeScript, and Redux Toolkit for internal banking tools used by investment analysts and traders.
- Built interactive dashboards with D3.js and Highcharts to visualize real-time financial data, including equity risk heatmaps and credit default spreads.
- Collaborated with cross-functional teams to convert complex financial algorithms into user-facing applications, partnering with quantitative analysts (quants) and data scientists.
- Integrated real-time streaming data using WebSockets to display live trade executions and order book changes with minimal latency.
- Migrated legacy apps from AngularJS to React 18 and Next.js, improving performance by 35% and enabling better SEO and SSR (server-side rendering).
- Implemented end-to-end accessibility (WCAG 2.1) compliance, ensuring applications met internal legal and ADA standards across all platforms.
- Created reusable UI components with Tailwind CSS and Styled-Components, following JPMorgan's internal design system and UX guidelines.
- Conducted A/B testing and feature flagging via LaunchDarkly, optimizing feature rollouts based on user behavior analytics.
- Developed and consumed secure RESTful and GraphQL APIs for account management, trade confirmations, and Open Banking (PSD2) integration.
- Wrote comprehensive unit, integration, and E2E tests using Jest, Cypress, and Playwright, maintaining 90%+ code coverage across projects.
- Used GitHub Actions and Jenkins to automate CI/CD pipelines, achieving fast, reliable deployments to AWS and Azure cloud environments.
- Conducted browser compatibility testing using BrowserStack to ensure flawless user experience across Chrome, Safari, Edge, and Firefox.
- Participated in daily Agile ceremonies including sprint planning, grooming, retrospectives, and demos, delivering features on 2-week sprints.
- Implemented security best practices following OWASP guidelines, including CSRF/XSS protection, token validation, and OAuth2-based login flows.
- Collaborated with Compliance and Risk teams to ensure all UI features adhered to SOX, GDPR, and FINRA regulatory requirements.

Convrse.pro, India | Frontend Software Engineer   **July 2018 - Dec 2021**

- Developed an immersive real estate inventory management interface using Vue.js and TresJS, integrating 3D property visualizations with real-time updates for an enhanced user experience in virtual environments.
- Led frontend development of a 3D property optimizer tool using Next.js, React.js, Three.js, WebGL, and Tailwind CSS, delivering a performant and interactive web application deployed on a scalable cloud platform.
- Refactored frontend architecture with Webpack and Babel, achieving a 30% reduction in bundle sizes and a 50% improvement in page load performance through lazy loading, code splitting, and minification strategies.
- Implemented RESTful API and GraphQL integration using Axios and Apollo Client, optimizing data retrieval and reducing API round-trip latency by 30% for dynamic content rendering.

- Wrote robust unit and integration tests using Jest and React Testing Library, achieving over 85% test coverage and ensuring cross-browser and cross-platform consistency through automated CI test suites.
- Built reusable React components and implemented Redux for state management, improving code maintainability and speeding up new feature development across product modules.
- Collaborated with UI/UX teams using Figma and wireframes, translating design mockups into responsive, WCAG-compliant interfaces, leading to a 15% increase in user task completion rates.
- Extended product accessibility to mobile platforms using React Native, enabling adaptive UI and offline support on iOS and Android, which expanded the user base by 40%.
- Set up GitHub Actions and Jenkins CI/CD pipelines, automating testing and deployment processes to improve release velocity and reduce regression bugs during production rollouts.
- Enforced code quality standards using ESLint and Prettier, supporting best practices and maintaining team consistency in large collaborative codebases.
- Conducted regular code reviews and mentored junior developers, enhancing team knowledge sharing and improving onboarding efficiency for new engineers.
- Worked in Agile Scrum teams with daily standups, sprint planning, and retrospectives using Jira, ensuring timely delivery of features while maintaining transparency and velocity.
- Focused on performance metrics such as First Contentful Paint (FCP) and Time to Interactive (TTI), using Chrome DevTools and Lighthouse to identify and fix rendering bottlenecks.

Skills

- **Methodology:** SDLC, Agile, Waterfall
- **Frameworks/Libraries:** React.JS, Node.JS, Express.JS, Bootstrap, Tailwind, React Router, Redux, Redux Toolkit Rest API
- **IDE's:** Visual Studio Code
- **Web Technologies:** HTML, CSS, SCSS, JavaScript, jQuery, JSON, Ajax, Bootstrap, TypeScript, DOM Manipulation, React-Redux
- **Debugging And Testing Tools:** Chrome Developer Tools, Firebug, Jasmine & Karma, Jest & Enzyme, Postman
- **Cloud Technologies:** AWS, Azure
- **Web Server:** Apache Tomcat, Web Sphere
- **Databases:** MongoDB, MySQL, PostgreSQL
- **Version Control Tools:** Git, SVN
- **Other Tools:** UML, MS Visio, MS Office
- **Operating Systems:** Windows, Linux

Education

Master's in Information Systems
Northeastern University, Boston, MA