**Chandu M**

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**PROFESSIONAL SUMMARY**

* Over 7 years of professional experience in front-end development, specializing in React applications across finance, supply chain, insurance, and digital media.
* Expertise in architecting high-performance applications using React.js, Next.js, Redux Toolkit, and Context API, with a proven ability to design complex microfrontend ecosystems.
* Demonstrated success in enhancing application performance through server-side rendering, incremental static regeneration, advanced state management, code-splitting, and lazy loading.
* Developed and maintained reusable component libraries and dynamic, data-driven dashboards using tools like D3.js, Chart.js, and Highcharts to effectively visualize complex data.
* Engineered real-time data synchronization and fault-tolerant WebSocket solutions for live updates in critical financial and supply chain environments.
* Proven ability to integrate secure API connectors with Axios and Apollo Client, implementing robust caching and error-handling strategies to maintain data consistency.
* Extensive experience in streamlining CI/CD pipelines using Docker, Jenkins, AWS Amplify, and Vercel, ensuring rapid deployments and high availability in enterprise settings.
* Adept at collaborating with cross-functional teams using agile methodologies, leveraging tools such as Figma, JIRA, and Confluence to align technical solutions with business objectives.
* Solid background in optimizing cross-browser compatibility, responsive design, accessibility (WCAG compliance), and rigorous testing with Jest, React Testing Library, Cypress, and Enzyme.
* Strong academic credentials with a Bachelor’s and a Master’s in Computer Science, underscoring a commitment to continuous learning and technical excellence.
* Pioneered the modernization of legacy insurance portals for AIG by architecting scalable React solutions, integrating secure OAuth-based authentication, and enabling real-time policy updates.
* Delivered interactive, responsive user interfaces for digital media projects at Ewall Solution, translating high-fidelity designs into performance-optimized web applications.
* Collaborated on enterprise-level projects at RedCentric by developing robust UI screens using JSP, HTML, CSS, and JavaScript, ensuring seamless integration with backend services via Struts, Spring, and Hibernate.
* Developed custom solutions to manage high-volume data streams and intricate business logic across diverse sectors, leveraging advanced React hooks, middleware, and comprehensive testing frameworks.
* Spearheaded initiatives to enhance code quality and foster team collaboration through detailed documentation, regular code reviews, and technical training sessions, driving continuous improvement across projects.

**TECHNICAL SKILLS**

* **Languages:** JavaScript (ES6+), HTML5, CSS3, SCSS, LESS, XML
* **Frameworks & Libraries:** React.js, Next.js, Redux (Redux Toolkit, Thunk, Saga), Context API, MobX, Zustand, jQuery, JSP
* **UI & Styling:** Material-UI, TailwindCSS, Bootstrap, Ant Design, responsive design, CSS preprocessors (SCSS, LESS)
* **Testing & Quality Assurance:** Jest, React Testing Library, Enzyme, Cypress, Playwright, Jasmine, Storybook
* **Build & Deployment:** Webpack, Babel, Parcel, Vite, Docker, Jenkins, Grunt, ANT, Netlify, AWS Amplify, Vercel
* **Backend Integration:** RESTful APIs, GraphQL, Axios, Apollo Client, JSON, jQuery AJAX
* **DevOps & CI/CD:** Containerization, blue-green deployments, automated rollback strategies, continuous integration pipelines
* **Data Visualization & Utilities:** D3.js, Chart.js, Highcharts, Lodash, Moment.js
* **Collaboration & Tools:** Git, JIRA, Confluence, Figma, Miro, Chrome DevTools, Sentry, React Profiler
* **Additional Expertise:** Microfrontend architectures, server-side rendering (SSR), incremental static regeneration (ISR), real-time WebSocket integration, OAuth, progressive web apps (PWA), accessibility (WCAG compliance), performance tuning, cross-browser compatibility, agile methodologies

**PROFESSIONAL EXPERIENCE:**

**Client: TD BANK- Mt.Laurel, NJ Sep 2024 -Till date**

**Role: Senior React Developer**

The TD Bank Portal project aimed to revamp the existing online banking platform, providing a seamless and responsive user experience across devices. The project involved the modernization of the user interface with React, enhancing performance, security, and accessibility to meet the latest industry standards. The goal was to streamline the banking experience for users, including individual customers, small businesses, and commercial clients, by integrating new features and improving the overall user journey.

**Responsibilities:**

* Designed a microfrontend architecture that decomposes a large banking portal into isolated yet intercommunicating modules. Collaborated with cross-domain teams to ensure each micro-app adhered to consistent UI/UX standards while operating independently.
* Developed server-side rendering (SSR) workflows to preload critical data for customer dashboards, reducing TTFB (time to first byte). Leveraged Incremental Static Regeneration (ISR) to serve near-real-time updates on frequently accessed financial metrics.
* Engineered robust state management using Redux Toolkit with custom middleware to monitor asynchronous API calls and complex data flows. Integrated Context API for localized state control in deeply nested component hierarchies where Redux overhead was not ideal.
* Built a reusable, scalable library of UI components, ensuring modularity and consistency across multiple banking services. Documented components with Storybook, streamlining onboarding and encouraging reuse across enterprise applications.
* Developed a fault-tolerant WebSocket solution to push real-time updates for transaction alerts and market fluctuations. Implemented auto-reconnection and error recovery strategies to ensure uninterrupted service during network disruptions.
* Performed regular Lighthouse audits and integrated React Profiler, identifying performance bottlenecks and implementing code-splitting. Applied lazy loading and memoization techniques, reducing bundle size by over 30% and improving rendering speeds for data-rich dashboards.
* Created custom hooks to encapsulate complex business logic, such as data polling, real-time validation, and conditional rendering. Promoted code reuse across multiple projects, reducing redundancy and standardizing error handling mechanisms.
* Standardized design tokens and component variants to reflect TD Bank’s brand guidelines across all digital touchpoints. Configured containerized build environments using Docker and orchestrated CI/CD pipelines with Jenkins for automated testing and deployments.
* Established rollback procedures and monitoring hooks to quickly address production issues in a high-stakes financial environment. Developed secure API connectors using Axios for RESTful endpoints and Apollo Client for GraphQL queries, ensuring smooth data flow. Integrated caching layers and error-handling logic to manage data consistency during peak load periods.
* Applied advanced Webpack configurations including tree-shaking and dynamic imports to significantly reduce bundle sizes. Utilized code-splitting to isolate non-critical modules, enhancing performance for first-time and returning users.
* Engineered extensive unit, integration, and end-to-end tests using Jest, React Testing Library, and Cypress to ensure high code quality. Integrated tests into the CI pipeline to catch regressions early and maintain robust application reliability.
* Integrated libraries like D3.js and Highcharts to create interactive, data-driven visualizations that clearly convey complex financial data. Configured Sentry for real-time error tracking and established custom error boundaries to gracefully handle runtime exceptions.
* Maintained detailed incident logs and coordinated with support teams to proactively address critical production issues. Customized Babel and Webpack configurations to optimize the build process, reducing build times by 25% while ensuring code quality. Integrated automated static code analysis and linting tools to enforce coding standards and best practices.
* Conducted regular technical training sessions, sharing best practices on React, Next.js, and advanced state management techniques. Reviewed code, provided detailed feedback, and established coding guidelines to elevate overall team proficiency.
* Worked hand-in-hand with DevOps teams to monitor application performance on AWS Amplify and Vercel, ensuring high availability and rapid scaling. Designed and implemented deployment strategies that incorporated blue-green deployments and automated rollback triggers.
* Engineered complex authentication flows using token-based security mechanisms and session management techniques tailored for high-risk transactions. Coordinated with backend teams to implement secure password recovery and account locking protocols. Integrated A/B testing frameworks to dynamically adjust UI components based on user behavior and transaction history.
* Collaborated with analytics teams to create personalized dashboards that enhance customer engagement and satisfaction. Designed mobile-first interfaces with responsive breakpoints and optimized touch interactions, ensuring smooth performance on smartphones and tablets. Utilized media queries and adaptive layouts to deliver consistent experiences across a range of screen sizes.
* Engineered service workers and caching strategies to enable offline access to critical banking functions, improving reliability during connectivity issues. Tested edge cases to ensure data consistency and smooth transitions between offline and online modes.
* Developed advanced error boundaries and fallback UIs to manage unexpected failures gracefully, preserving user trust in critical financial applications. Documented error scenarios and established protocols for rapid debugging and resolution in production environments.
* Coordinated with backend teams to implement WebSocket-based synchronization, ensuring real-time consistency of financial data across multiple user sessions. Developed conflict resolution strategies and data reconciliation mechanisms to manage concurrent updates.
* Defined key performance indicators (KPIs) such as page load time, API response time, and rendering metrics to continuously gauge application health. Utilized real-time monitoring tools to adjust configurations and refactor code to meet or exceed set benchmarks.

**Client: Win Supply, Dayton, OH Jul 2023 to Aug 2024**

**Role: Sr React Developer**

**Responsibilities:**

Project - Enterprise Supply Chain & Logistics Enhancement

This initiative focused on modernizing and extending Win Supply’s existing supply chain and logistics operations. The project was designed to seamlessly integrate with established ERP systems, enhancing real-time data visibility, predictive analytics, and automated workflows without disrupting legacy processes.

* Developed independent microfrontends tailored to distinct supply chain functions such as inventory tracking and vendor management. Ensured that each module could be deployed and updated independently while maintaining a unified UI experience. Implemented Next.js to balance static pre-rendering with dynamic server-side content, optimizing load times for product catalogs.
* Enhanced SEO for public-facing pages and provided real-time updates for internal dashboards. Utilized Redux with custom middleware and Context API to manage real-time updates in high-frequency inventory and order tracking systems. Implemented granular state segmentation to handle large datasets while ensuring minimal performance overhead.
* Created a comprehensive set of reusable React components, including dynamic forms and data grids, specifically designed for supply chain applications. Maintained detailed documentation and examples using Storybook, enabling consistency across multiple development teams. Developed automated test suites with Jest, Storybook, and Playwright to simulate vendor interactions and order processing workflows.
* Integrated testing into CI/CD pipelines to catch regressions and ensure uninterrupted service during peak operational hours. Configured rapid build processes using Vite and Parcel, significantly reducing development turnaround times.
* Orchestrated CI/CD pipelines with Jenkins and automated deployments on Netlify, ensuring seamless rollouts with minimal downtime. Engineered resilient API connectors using Axios for REST and Apollo Client for GraphQL, handling real-time inventory and shipment data. Implemented caching strategies and error-handling routines to maintain performance during traffic spikes.
* Designed interactive dashboards using D3.js and Chart.js to visualize key supply chain metrics such as order fulfillment and logistics performance. Developed drill-down capabilities to allow detailed analysis of shipment statuses and vendor performance metrics. Implemented a robust WebSocket framework to push real-time notifications for critical supply chain events, such as stock shortages or shipment delays. Developed reconnection and fallback mechanisms to maintain reliable communication even under high network latency.
* Worked closely with UX/UI teams in Figma to design intuitive interfaces for order tracking, vendor management, and inventory control. Conducted iterative usability tests to refine interactions and ensure the interface met operational needs in real-world scenarios.
* Developed custom Redux reducers and actions to manage high-frequency data updates from multiple supply chain sources. Implemented debouncing and throttling strategies to reduce redundant state updates and enhance application performance. Utilized JIRA, Confluence, and Miro to coordinate sprint planning, daily stand-ups, and cross-team technical reviews.
* Designed mobile-responsive layouts with Bootstrap and Ant Design, ensuring a seamless experience for users on tablets and smartphones. Employed adaptive design techniques and media queries to maintain usability across diverse devices and network conditions.
* Engineered Redux middleware to validate incoming API data, filter out anomalies, and standardize data structures before state updates. Reduced the occurrence of data-related errors by integrating robust validation rules into the core data flow.Monitored deployment health using real-time dashboards and initiated automated rollback procedures when necessary.
* Defined KPIs for component load times, API latency, and user interactions, setting measurable targets to improve system responsiveness. Employed continuous monitoring tools to track real-time performance and trigger alerts for deviations from benchmarks. Developed a theming engine that dynamically adapts UI components to match client-specific branding, including colors, typography, and layout variations. Enabled non-technical teams to adjust branding parameters through a centralized configuration portal.
* Leveraged Next.js capabilities to pre-render product pages and public dashboards, improving search engine visibility and indexing. Collaborated with marketing to optimize meta tags and structured data for enhanced digital presence. Developed complex form components with dynamic validation rules tailored for order entry and shipment tracking.
* Designed caching layers using service workers and local storage to offload repetitive data requests, thereby reducing server latency. Fine-tuned cache expiration policies to balance freshness of data with performance improvements.

**Client: AIG, Farmington, CT April 2022 to Feb 2023**

**Role: React Developer**

**Responsibilities:**

Project - Modernization of Insurance Claims & Risk Management Operations

This initiative sought to enhance AIG’s mature insurance operations by integrating modern, data-driven components into the existing claims processing and risk management ecosystem. The project concentrated on streamlining workflows, augmenting legacy systems with advanced analytics, and fortifying security without overhauling the entire infrastructure.

* Architected scalable React applications that segmented insurance products, claims management, and policyholder services into distinct modules. Ensured seamless integration with legacy systems while modernizing the front-end experience for enhanced user engagement. Deployed Next.js to render initial page loads on the server, enhancing SEO for customer-facing insurance portals.
* Combined static and dynamic rendering approaches to provide up-to-date information without sacrificing performance. Utilized Redux and Context API to manage high-volume data streams such as policy details, claims history, and customer records. Developed custom reducers to handle intricate data transformations and ensure consistency across the application.
* Built a library of standardized React components specifically tailored for insurance workflows, including forms, modals, and dashboards. Documented component usage extensively to facilitate reuse and maintain consistency across different insurance modules.
* Engineered a WebSocket-based notification system to alert users about live updates on policy changes and claim statuses. Implemented robust error handling and reconnection logic to ensure uninterrupted delivery of critical updates. Established unit, integration, and end-to-end tests using Jest, Enzyme, and Cypress, ensuring high code reliability for complex insurance workflows.
* Integrated these tests into a continuous integration pipeline to catch and address issues early in the development cycle. Developed resilient connectors using Axios for RESTful API interactions and Apollo Client for GraphQL queries, ensuring reliable data retrieval. Implemented caching and fallback strategies to handle intermittent connectivity issues without data loss.
* Implemented OAuth and secure token management to protect sensitive customer and policy data. Engineered robust session handling to support long-duration user interactions typical in enterprise insurance applications.
* Utilized lazy loading, code-splitting, React memoization to improve the performance of data-intensive views.
* Employed React Profiler and Chrome DevTools to systematically identify and resolve rendering inefficiencies.
* Crafted mobile-responsive layouts using TailwindCSS and SCSS, ensuring accessibility for users on a variety of devices. Collaborated with design teams in Figma to translate high-fidelity mockups into pixel-perfect, interactive components. Configured Webpack and Babel for production-ready builds, reducing bundle size and accelerating load times.
* Orchestrated Docker-based deployments within a CI/CD framework, ensuring reliable and consistent rollouts.
* Applied WCAG guidelines to all new components, ensuring that insurance portals were accessible to users with disabilities. Regularly conducted accessibility audits and incorporated feedback to refine navigation and content presentation.
* Worked closely with design, backend, and QA teams using JIRA and Confluence to align on technical requirements and timelines. Actively participated in agile ceremonies, contributing to sprint planning and daily stand-ups to ensure project cohesion.
* Developed dynamic theming capabilities that allowed the insurance portal to adapt to different product lines under the AIG umbrella. Utilized design tokens and centralized configuration to streamline branding updates across multiple modules.
* Designed adapter components that bridged modern React applications with legacy backend systems, ensuring a smooth data transition. Documented integration patterns to support future migrations and system upgrades. Utilized React memoization, debouncing, and throttling to optimize component rendering under heavy data loads. Established protocols for incremental updates that minimized disruption during high-traffic periods.

**Client: Ewall Solution, India. Aug 2017 – Nov 2021**

**Role: React/Web Developer**

**Responsibilities:**

* Translated high-fidelity UI designs into responsive, cross-browser compatible interfaces using JavaScript, HTML, CSS, jQuery, and Bootstrap.
* Developed user-friendly web pages and flash plugins to deliver diverse content and functionality.
* Integrated jQuery APIs within an MVC architecture to enhance dynamic content delivery.
* Leveraged AJAX and JSON to build rich, data-driven GUIs and optimize site performance.
* Conducted proactive debugging and performance tuning using tools like Chrome Inspector and Firefox Firebug.
* Designed and maintained XML files and classes for content management (video, images, audio) in Flash applications.
* Employed Grunt for JavaScript minification, reducing load times and enhancing site performance.
* Prepared comprehensive Unit and System Testing Specification documents, executing rigorous testing using Jasmine and JUnit.
* Collaborated with stakeholders to ensure optimal performance and seamless cross-browser compatibility.
* Developed RESTful web services and utilized JDBC for secure, reliable access to Oracle database information.
* Collaborated with Agile teams and used ANT for compiling and generating WAR files, ensuring timely and quality software delivery.
* Developed dynamic UI screens using JSP, HTML, CSS, and JavaScript, ensuring an engaging user experience.
* Implemented enterprise-level web applications using JSP, Servlets, and the Struts framework while providing production support.
* Created and validated Action Forms, Servlets, and form beans within the Struts framework to enforce business logic.
* Applied client and server-side validations via JavaScript and Struts validate plug-in, enhancing data integrity.
* Utilized the Java Collections API to efficiently manage data flow between business layers and the front end.
* Implemented multithreading to handle high volumes of concurrent requests and improve system performance.
* Developed stored procedures, scheduled jobs, and complex SQL queries to support robust reporting and data analysis.
* Designed a business continuity plan for SQL Server databases using JDBC drivers.
* Leveraged Spring for dependency injection, integrating Hibernate DAO objects for streamlined data access.
* Configured Hibernate mapping through XML, ensuring seamless persistence with SQL databases.

**Education:**

Bachelor in Computer Science, JNTUH 2017.

Masters in Computer Science, Marist College 2022-2023.