Birundadevi Marudachalam

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Professional Summary

Frontend Developer with over 10 years of experience in designing and building scalable, user-centric web and mobile applications for e-commerce, healthcare, and banking applications. Specialized in React.js, Next.js, React Native, TypeScript and modern frontend technologies with strong exposure to AI-driven platforms. Expert in performance optimization, API integration (REST & GraphQL), SEO best practices and headless architecture. Currently based in the UAE and available for immediate joining with valid residential visa (Sponsored by Spouse).

Technical Skills

Languages: HTML5, CSS3, JavaScript, TypeScript

Frameworks/Libraries: React.js, Vue.js, Next.js, Node.js, React Native, .NET, Bootstrap, Material UI, Tailwind CSS.

State Management: Redux, XState, Context API

Testing Tools: Jest, Enzyme, React Testing Library

Version Control & Build Tools: Git, Bitbucket, Webpack, Babel, npm, Yarn.

IDE: Android Studio, Xcode & Visual Studio Code

API: RESTful APIs, GraphQL

Optimization: SEO Best Practices, Web Analytics, Checkout Flows, Payment Gateway Integration, Headless Architecture, Performance Optimization.

Other Skills: Responsive Design, Accessibility (WCAG), Agile Methodologies, Scrum, Jira, Jenkins.

Professional Experience

Frontend Team Lead

Accenture | Chennai, India | Oct 2021 – Mar 2025

- Led the development of modern, high-performance single-page applications (SPA) using React.js, Next.js, and Node.js with a 5-member team in delivering secure, responsive healthcare modules.
- Mentored junior developers through code reviews, pair programming, and technical onboarding sessions.

- Acted as the main point of contact between frontend, backend, and product teams during Agile sprints.
- Conducted sprint planning, backlog grooming, and sprint reviews in collaboration with product owners and Scrum Masters.
- Integrated GraphQL & RESTful APIs for real-time transaction processing.

UI Developer

Cognizant | Chennai, India | Jun 2018 – Oct 2021

- Built scalable e-commerce and banking pages using React.js and Next.js with SSR for SEO enhancements.
- Integrated GraphQL APIs for dynamic product rendering, inventory, and checkout data.
- Implemented payment gateway integration and checkout flow optimization.
- Applied best practices in accessibility and mobile-first design, ensuring WCAG 2.1 compliance.
- Integrated headless CMS (e.g., Contentful, Strapi) to manage dynamic e-commerce content, promo sections, and homepage banners.
- Fetched CMS content via GraphQL and rendered product sections with live updates and real-time preview modes.

Associate

Infosys | Chennai, India | Sep 2014 – Jun 2018

- Developed and maintained core modules of an Immigration Management System using ASP.NET MVC/Core and Entity Framework.
- Designed and developed complex stored procedures, functions, and packages in Oracle PL/SQL.
- Actively participating in SCRUM methodology of Development and Release.
- Have worked on complex parts which includes financial sector and billing details.
- Query making and generating many reports using the SAP tool
- Worked on developing Batch programs and SSIS packages.
- Developed modules using MVC framework and worked on WCF Web Services.

Projects

American pharmaceutical Company - React Native, React.js, Next.js, Typescript

- Developed an intuitive, step-by-step checkout experience using React and Next.js, featuring seamless cart review, address input, delivery options, and secure payment gateway integration.
- Implemented responsive design strategies to optimize user experience across mobile and desktop devices.

- Implemented finite state machines using XState to manage complex UI workflows for statement generation and navigation in the project.
- Maintained Git workflows and conducted code merges, conflict resolution, and branch strategies.
- Integrated Figma designs and led implementation of accessibility and form validation standards.
- Implemented mobile-first design strategies to ensure seamless user experiences across smartphones, tablets, and desktops, prioritizing responsive layouts, flexible grids, and touch-friendly components. Additionally, ensured full compliance with WCAG 2.1 accessibility standards by incorporating semantic HTML, proper ARIA roles, keyboard navigation support.
- Explored Detox for end-to-end testing of React Native workflows.
- Enhanced user experience by improving mobile performance by 25%.

E-Commerce – React, Next.js, GraphQL

- Built scalable and SEO-optimized e-commerce pages using React.js and Next.js with Server-Side Rendering (SSR).
- Integrated GraphQL APIs to dynamically fetch product listings, inventory data, and real-time checkout details.
- Implemented secure payment gateway integration and streamlined the checkout flow.
- Reduced page load times and improved search engine indexing by leveraging SSR and image optimization techniques.
- Implemented headless CMS integration (Contentful/Strapi) to efficiently manage dynamic content such as promotions, homepage banners, and other modular sections.
- Utilized GraphQL queries to retrieve CMS content, enabling real-time content updates and live preview functionality without requiring redeployments.
- Leveraged virtual scrolling and pagination techniques to handle large-scale product listings with optimal performance and minimal latency.
- Achieved a 10% performance boost in e-commerce workflows through fine-tuned rendering and state management.

Banking Application – React, GraphQL, Tailwind CSS

- Built dynamic, form-driven transaction modules (e.g., funds transfer, approvals, beneficiary management) using reusable React components.
- Created modular interfaces using React HOCs and Context API, reducing code duplication and simplifying future updates.
- Developed dashboards and approval workflows for retail banking interfaces.
- Contributed to internal component library for future reuse.
- Boosted frontend test coverage and stability using Jest and React Testing Library.
- Participated in cross-functional collaboration with business analysts and UX designers.

Education

Bachelor of Engineering in Computer Science | 2010 – 2014

Adithya Institute of Technology, Anna University – Coimbatore, India.

Certifications & Awards

- Cheer Award – April 2023
- Client Value Creation – October 2022

Languages

- English – Read/Write/Speak
- Tamil – Read/Write/Speak
- Telugu – Speak

Availability

Currently in Abu Dhabi, UAE with valid residential visa (sponsored by Spouse). Available for immediate joining. Open to roles in innovative, AI-driven or FinTech teams.