

Venkata Ramakrishna Mandalemula

FRONTEND DEVELOPER

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SUMMARY

- Frontend Developer with 4 years of hands-on experience in building responsive and accessible web applications using HTML5, CSS3, and JavaScript, with a strong understanding of cross-browser compatibility and modern web development principles.
- Experienced in front-end frameworks such as React.js and Angular, leveraging React Hooks and Redux for state management and Angular's Material UI for UI component design.
- Good Knowledge in utilizing TypeScript and ES6 syntax for writing clean and maintainable code, ensuring type safety and improved developer productivity.
- Skilled in unit and integration testing using frameworks like React Testing Library, Jest, and Jasmine, ensuring code quality and reliability through comprehensive test coverage.
- Experienced in working in Agile methodologies like Scrum and Kanban, collaborating with cross-functional teams using tools like Jira for project management and tracking progress.

SKILLS

Front-End Technologies	HTML, CSS, XML, Bootstrap, JavaScript, Typescript, ES6, React JS, Redux, Angular, Material UI, React Hooks, AJAX, DOM, Webpack
Methodology	Waterfall, Agile Scrum, Kanban
IDEs	NetBeans, IntelliJ IDEA, Eclipse, Visual Studio Code
Web Services	RESTful, SOAP, SwaggerOpen API
Databases	SQL, MongoDB, PostgreSQL, MySQL
CI/CD & Tools	Jenkins, Code Ship
Testing tools	Mockito, React Testing Library, Jest, Jasmine
Cloud & Deployment	AWS, Kubernetes, Docker
Web Server	Apache Tomcat, WebLogic
Other Technical Skills	Microservices, Node.js, Express.js, Jira, Git, SVN, Ant, GitHub, Bitbucket, SonarQube, Figma, Adobe XD, Creating Personas, LO-FI and HI-FI Prototypes, Problem Statements, Paper and Digital Wireframes, Usability Study Microsoft Office Suite (Word, Excel, PowerPoint), Postman, Responsive Design, Cross-browser compatibility, Accessibility, Problem Solving, Analytical Skills, Verbal Skills, Written Skills, Product Management, Multi-Device development, SAAS Web Applications, Debugging, Service-Oriented Architecture (SOA), Presentation Skills, Code Review, Communication, Optimization, Technical Discussions, Wordpress, WCAG, Software Architecture, SDLC, Object Oriented Design, Tailwind Troubleshooting, React Router, Content Management System (CMS), Cross Team Collaboration, Design Documents, Repositories, Automation Testing, JSX, GraphQL, Model View Controller (MVC), Design Guidelines, Data Collection, Search Engine Optimization (SEO), DOM Manipulation, Single Page Application
Operating Systems	Windows, LINUX, Mac iOS

EXPERIENCE

Frontend Developer | UnitedHealth Group, TX

Jun 2023 – Current

- Developing and maintaining the responsive user interface for UnitedHealth Group's patient portal application using React and Angular, ensuring optimal performance and accessibility across various devices and browsers.
- Utilizing React hooks and Redux for state management, improving application efficiency and maintainability, resulting in a 15% reduction in code complexity.

- Using Figma's collaborative features to work with the UX/UI design team in real-time, enabling seamless collaboration and alignment on design mockups and wireframes.
- Implementing accessibility features in compliance with WCAG and Section 508 standards, ensuring an inclusive experience for users with disabilities.
- Optimizing web application performance through techniques such as code splitting, lazy loading, and server-side rendering (SSR), leading to a 25% decrease in initial load times.
- Contributing to the development of reusable UI component libraries, promoting consistency and efficiency across multiple healthcare applications.
- Collaborating with the UX/UI design team to interpret design mockups and wireframes, translating them into intuitive and visually appealing user interfaces tailored for healthcare applications.
- Utilizing browser developer tools and performance monitoring tools (Lighthouse, WebPageTest) for debugging, profiling, and optimizing web applications, ensuring optimal performance and user experience.
- Maintaining and updating documentation for the frontend codebase, ensuring clear communication and knowledge sharing among team members, and facilitating compliance with healthcare industry regulations.
- Contributing to reusable UI component libraries, improving consistency and efficiency across multiple healthcare applications.

Frontend Developer | HCL Tech, India

Apr 2019 – Jul 2022

- Developed and implemented a Progressive Web App (PWA) for a retail client, enabling offline functionality and faster load times, resulting in a 35% increase in user engagement and retention.
- Integrated real-time communication features, such as WebRTC for video conferencing and WebSockets for real-time data updates, enhancing the user experience for a collaborative project management application.
- Developed reusable component libraries in Figma, ensuring consistent implementation of UI elements across various screens and promoting design system consistency and also developed design systems and pattern libraries within Adobe XD, ensuring consistent application of design elements, styles and components across the development team.
- Implemented accessibility features beyond WCAG compliance, such as voice control and screen reader optimization, ensuring an inclusive user experience for users with disabilities.
- Made internationalization and localization features, enabling applications to support multiple languages, date formats, and cultural preferences based on client requirements.
- Used Adobe XD to create wireframes and interactive prototypes for the Progressive Web App (PWA) and collaborative project management application, allowing for rapid iteration and feedback during the design phase.
- Integrated WebSocket APIs alongside RESTful APIs to facilitate real-time data updates and notifications for collaborative features like video conferencing and project management.
- Provisioned and configured AWS resources such as EC2 instances, S3 buckets, and RDS databases to host the frontend application, backend services, and data storage for the project management application.
- Leveraged Lo-Fi prototypes as a cost-effective way to gather feedback early in the design process, identifying usability issues and refining design solutions before investing in Hi-Fi prototypes.
- Implemented service workers in React to enable offline functionality for the PWA, allowing users to access certain features and content even when offline, thereby enhancing user engagement and retention.
- Took advantage of MongoDB's schema flexibility to accommodate evolving data requirements and dynamic data structures in the React application, enabling agile development and iteration.
- Designed the UX/UI for real-time collaboration features such as video conferencing and real-time data updates, ensuring that the interface is intuitive and user-friendly for users engaging in collaborative project management tasks.

EDUCATION

Master of Science in Computer Science - University of Dayton, Ohio, USA

Bachelor of Technology in Information Technology - Vignan's Institute of Information Technology, Andhra Pradesh, India