**MADHU KIRAN PATHURI**

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**REACT JS DEVELOPER|NODE JS DEVELOPER | MERN STACK DEVELOPER**

* Accumulated over a decade of expertise in front-end and full-stack development, specializing in React.js, Redux, Node.js, and associated technologies.
* Orchestrated the development of intuitive and high-performance user interfaces for major clients like Kroger and Best Buy, elevating their digital shopping experiences.
* Proficiently navigated a wide array of technologies including HTML/HTML5, CSS/CSS3, XML, DHTML, JavaScript, React JS, JQuery, JSON, Node.js, Ajax, Redux, Flex, SASS, LESS, JQUERY Bootstrap, and AWS.
* Demonstrated mastery in crafting single-page applications (SPAs) using React Js and crafting responsive User Interfaces for Mobile/Tablet/Desktop using HTML5 & CSS3.
* Cemented a solid grasp of web protocols and standards such as HTTP, HTML5/XHTML/XHTML-MP, CSS3, Web Forms, and XML.
* Tailored CSS frameworks like Bootstrap and Foundation with CSS pre-processors LESS or SASS and Compass.
* Delved deeply into the Document Object Model (DOM), DOM Functions, JavaScript functions, and cross-browser cascading styles.
* Applied React JS fluently, leveraging Flux architecture, and honed expertise with Redux architecture for performance optimization.
* Demonstrated adeptness in React JS components, Forms, Events, Keys, Router, Redux, Animations, Flux concept, and creation of Custom Reusable React Components Library.
* Mastered Node.JS and NPM modules, utilizing development tools like HTTP-server, Marathon, inquirer, path, MongoDB, Micro Services, Request, Elastic Search, express, and templating engines.
* Leveraged version control tools like CVS, GIT, SVN, Clear-Case, and continuous integration tools like Jenkins and Maven.
* Collaborated closely with UI/UX designers to create visually appealing and user-friendly interfaces using React.js, enhancing the overall user experience.
* Utilized Azure DevOps, GitHub, and Confluence for seamless team collaboration, code reviews, and application deployment.
* Embraced a comprehensive understanding of the Software Development Life Cycle (SDLC), including Requirement Analysis, Implementation, and Maintenance with Agile and SCRUM methodologies.
* Established deployment pipelines, continuous integration/continuous deployment (CI/CD) workflows, and monitoring systems to deploy and manage MERN stack applications efficiently.
* Demonstrated prowess in thriving both as a team member and autonomously.
* Distinguished as a highly skilled and results-driven React.JS developer with over 10 years of experience in designing, developing, and maintaining complex web applications.
* Produced technical documentation, API documentation, and code comments to facilitate collaboration among team members and ensure the maintainability of the codebase.
* Participated actively in code reviews, contributing to code quality assurance efforts and fostering a culture of continuous improvement.
* Aspire to undertake a challenging role as a MERN stack developer, leveraging expertise in web development technologies to craft clean, efficient, and maintainable code for both front-end and back-end components of web applications.

# TECHNICAL VALUE-ADDED

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| --- | --- |
| **Web Technologies:** | HTML5, CSS3, SASS, JavaScript, AJAX, jQuery  WordPress, JSON, Bootstrap, Angular, React JS, Redux  ES6, Express JS, Node.js, GitHub |
| **Development Tools:** | Eclipse, Web Matrix, Web Strom, Bonita, Sublime  Dreamweaver, Notepad++ |
| **Debugging Tools:** | Firebug, Bugzilla, Chrome Developer Tools, Intel IJ |
| **Frameworks & Libraries:** | Next.js, Express.js, React, Redux, jQuery, JSON |
| **Servers:** | IBM WebSphere, Apache Tomcat, BEA WebLogic 8.1, JBoss, HTTP Web Server |
| **Platforms:** | Windows 95/98/NT/2000/XP/Vista, Sun Solaris 9/10, IBM-AIX 5.2/5.3, Linux 5/6 |
| **Methodologies:** | Agile, Rational Unified Process (RUP), UML Waterfall |
| **Database:** | MongoDB, PostgreSQL, Spunk data storage (Big data), Oracle 8i, 9i, 10g, SQL Server 2000, 2005 & 2008, IIS 6.0/7.0 |
| **Front End Tools:** | CorelDraw, Dreamweaver, Adobe Photoshop CS5, Illustrator |
| **Testing Tools and Logging Frameworks:** | Junit3.8/4.0, Load runner, Jasmine, Selenium, T-probe, Easy Mock |
| **Programming Languages:** | C, C++, JAVA, C#, .Net, ASP.Net, Web Services |
| **Cloud Backend:** | AWS, Assure, IBM Cloud, Node.js, Graphql, Express.js, MongoDB |

# CAREER PROGRESSION

**Client: Kroger, Cincinnati, OH April 2021 - Present**

**Role: React.js /Node.js Developer**

**Project Description:**

Led the transformation of millions of customers' digital shopping experiences for Kroger by crafting intuitive and visually appealing user interfaces for its website and mobile apps. Collaborated with cross-functional teams to align design solutions with customer needs and company objectives, enhancing navigation, functionality, and user satisfaction.

**Responsibilities:**

* Spearheaded the development and maintenance of scalable and high-performance user interfaces for Kroger's web applications using React.js.
* Employed React JS components, Forms, Events, Keys, Router, Animations, and the Flux concept to create dynamic and responsive UIs.
* Engineered stable React components and standalone functions for seamless integration across web pages.
* Implemented Redux for state management in complex applications, ensuring data consistency and efficient UI updates.
* Utilized WebSocket for real-time geo-location updates on Google Maps.
* Developed React Native applications for iOS and Android platforms, ensuring optimal performance.
* Managed application state efficiently using Redux, MobX, or React Context API in React Native applications.
* Implemented server-side rendering (SSR), static site generation (SSG), routing, and API integration using Next.js and React.
* Crafted client-side interfaces with React JS, supported by Node.js and MongoDB on the backend.
* Utilized Node.js for SSR, enhancing performance and SEO for the Kroger web app.
* Established communication with backend APIs using Node.js for dynamic content population.
* Orchestrated login, authorization, logging, error handling, and other aspects across the application using Node.js.
* Integrated server-side routing with Express.js for effective HTTP request management.
* Integrated GraphQL schema and queries to accurately retrieve data and depict the Kroger online application's structure.
* Integrated SOAP web services to enhance backend connectivity.
* Hosted the Kroger online application on Amazon Web Services (AWS), leveraging Amazon EC2 and AWS Elastic Beanstalk for deployment.
* Containerized components of the Kroger online app using Docker and integrated Docker into the CI/CD pipeline for automation.
* Utilized Kubernetes Services to streamline communication between frontend and backend services.
* Implemented MongoDB as the primary database for managing unstructured or semi-structured data.
* Configured build tools like Babel, Webpack, Parcel, and Vite to optimize assets for production deployment.
* Implemented SOAP client functionality within the front-end codebase using JavaScript-compatible libraries.
* Configured Webpack, Parcel, and Vite as the build tools to bundle and optimize the Kroger web app&#39;s assets, including JavaScript, CSS, images, and fonts, for production deployment.
* Utilized Jest as the primary testing framework for unit tests and Enzyme for React component rendering.
* Consumed RESTful APIs to manipulate data within React applications.
* Implemented the Flux architecture pattern to manage data flow in the Kroger web app.
* Developed custom API routes to handle backend logic and data fetching within the Next.js framework.

**Environment:**

* HTML5, CSS3, Bootstrap, SASS, JavaScript, jQuery, JSON, React JS, Redux, Next.js, Node.js, Express.js, MongoDB, JIRA, Mocha, GitHub, Jenkins, WebStorm

**Client: Best Buy, Richfield, MN June 2019 - March 2021**

**Role: React.js Developer/Node.js Developer**

**Project Description**

Led initiatives to enhance the user experience of Best Buy's website and mobile apps, collaborating with cross-functional teams to optimize product discovery, checkout speed, and site usability. Focused on creating responsive, user-friendly interfaces aligned with Best Buy's brand and customer expectations, aiming to drive engagement, loyalty, and conversion rates.

**Responsibilities:**

* Designed and implemented modular React components to bolster code reusability and maintainability across projects, streamlining development processes and ensuring consistency.
* Employed React.js state and props mechanisms effectively to manage component data flow, guaranteeing accurate rendering and seamless interaction within the application.
* Utilized React.js capabilities to craft responsive and visually appealing user interfaces adaptable to various screen sizes and devices, enhancing accessibility and user experience.
* Implemented React Router to establish dynamic client-side routing, facilitating smooth navigation between different views and pages within the application, thus improving user engagement and usability.
* Leveraged React.js virtual DOM to optimize rendering performance, reducing DOM manipulations and enhancing overall application speed and responsiveness.
* Integrated geospatial data visualization features within the React.js application, including map rendering, layer display, and style customization.
* Retrieved geospatial data from GeoServer's REST API or other sources and integrated it seamlessly into the React.js application.
* Employed Redux for centralized state management in complex applications, ensuring predictable state changes and simplified data flow between components, thereby enhancing code maintainability and scalability.
* Oversaw the deployment of React Native applications to app stores (Google Play Store, Apple App Store) and managed the app release process.
* Optimized React Native applications for enhanced performance, focusing on reducing bundle size, improving rendering speed, and minimizing memory usage.
* Designed, developed, and tested HTML5, CSS3, Bootstrap, JavaScript, jQuery, and React.JS applications, ensuring compliance with accessibility and web browser standards.
* Managed front-end dependencies using Node.js-based package managers such as npm or Yarn, ensuring consistency and version control of third-party libraries used in the project.
* Integrated Node.js-based testing frameworks such as Mocha, Jest, or Cypress for designing and executing automated unit tests, ensuring the reliability and stability of the web app's front-end components.
* Implemented Node.js-based CI/CD pipelines with tools such as Jenkins, Travis CI, and GitLab CI/CD, automating build, testing, and deployment procedures for faster release cycles and improved deployment workflows.
* Created RESTful APIs with Express.js to interface with backend services and databases, serving static files (including HTML, CSS, JavaScript, and pictures).
* Utilized GraphQL with backend services and databases like PostgreSQL and SQL to establish a unified API for the Kroger web app.
* Deployed Kroger using Azure App Service, automating construction, testing, and deployment with Azure Devops CI/CD pipelines, and managing relational data in Azure SQL Database.
* Implemented Agile approaches such as Scrum or Kanban into Jira, supporting iterative development cycles, sprint planning, daily stand-ups, and sprint reviews to ensure timely delivery of features and enhancements.
* Utilized Jenkins to execute automated tests during construction and incorporated unit, integration, and end-to-end testing to assure web app quality before release.
* Embedded images and multimedia content using HTML5 tags and employed CSS3 animations and transitions to enhance interactivity and user experience.
* Employed JavaScript event listeners to buttons or input fields to perform actions such as form submission, UI updating, or data fetching from the server.
* Leveraged TypeScript for frontend development, including building web applications and components within larger applications using frameworks like Angular and React.js.
* Collaborated with the Backend team to display data using custom components, library components, and Redux, optimizing API calls and integrating RESTful services.
* Integrated web services (SOAP and RESTful) for efficient data transmission, potentially leveraging Node.js, MongoDB, and Express.js for backend API development and management.
* Utilized Git for version control and implemented data access layers using ADO.NET for database interactions.
* Created and executed SQL Server stored procedures using ADO.NET, tracked and managed bugs/issues using JIRA, and wrote unit tests using the Jasmine framework.
* Developed TypeScript reusable components and services to consume REST APIs using component-based architecture.
* Conducted unit tests or integration tests for TypeScript code using testing frameworks like Jest, Jasmine, or Mocha.
* Leveraged Next.js built-in Image component for automatic image optimization, resulting in faster load times and better performance.

**Client: Yahoo, Sunnyvale, CA January 2017 – May 2019**

**Role: React.js Developer/Node.js Developer**

**Project Description:**

Contributed to a project aimed at enhancing user engagement and improving the user experience on Yahoo's homepage, a gateway to the internet for millions of users. Focused on creating a more personalized and interactive experience to keep users engaged and returning.

**Responsibilities:**

* Regularly communicated updates to the business team and project managers via an Agile (Scrum) development team, ensuring transparency and continuous progress.
* Used React use State hook to manage component-level state, such as form input fields, modal dialogs, and toggles and checkboxes.
* Orchestrated data fetching operations within React lifecycle methods such as componentDidMount() to load initial data
* Researched and evaluated JavaScript-based frameworks like React Native and Ionic/Cordova for frontend development to determine the most suitable tools for project requirements.
* Implemented React JS Virtual DOM and developed React views and components, including the utilization of custom HTML tags for complex UIs.
* Created various screens for the frontend with React.js, leveraging predefined components from NPM and the Redux library for a modular and scalable architecture.
* Configured Node.js to serve static assets such as images, fonts, and client-side JavaScript files, optimizing load times and enhancing caching strategies for improved performance.
* Integrated GraphQL with backend services and databases to establish a unified API for the Kroger web app, enhancing data retrieval efficiency and scalability.
* Implemented real-time features using Node.js with technologies like Socket.IO or WebSockets, enabling features such as live chat, notifications, or collaborative editing within the web app.
* Implemented SOAP authentication mechanisms, such as WS-Security, to ensure secure communication between the frontend application and SOAP-based services, safeguarding sensitive data.
* Configured Webpack to execute a variety of build tasks such as linting, minification, preprocessing, testing, and transpiling based on the build target, improving development workflow efficiency.
* Demonstrated expertise in TypeScript, including the ability to write type-safe code, utilize advanced features like generics and decorators, and leverage TypeScript's static typing to detect errors early in the development process.
* Employed the Flux pattern using the Redux framework for predictable state management, ensuring consistent application behavior.
* Integrated PostgreSQL and SQL Server databases into the Kroger web app to manage structured data such as user accounts, transactions, and inventory information effectively.
* Maintained AWS infrastructure components such as EC2, RDS, SQS, and Lambda, ensuring scalability and reliability of the cloud infrastructure.
* Conducted integration tests with Enzyme, Cypress, and Karma to validate interactions between React components, Redux stores, and external services, ensuring smooth data flow and UI behavior.
* Integrated testing frameworks like Jest, Mocha, and Cypress into CI/CD pipelines using tools like Jenkins, Travis CI, or GitLab CI/CD, automating the testing process and ensuring code quality and stability with every commit.
* Built pipelines using Grunt or Gulp to streamline the development process, ensuring consistent and efficient builds across different environments.

**Environment:**

* HTML5, CSS3, Bootstrap, SASS, LESS, JavaScript, React JS, Redux, Flex, WebStorm, JSP, AWS, HP Quality Center, Jasmine, GitHub, and Jenkins.

**Client: Reliance Industries Limited, Mumbai, India April 2014 - August 2016**

**Role: UI Developer Angular**

**Project Description:**

Contributed to the development of an advertisement management platform aimed at enabling businesses to efficiently manage their advertising campaigns. The platform provided user-friendly interfaces for creating, monitoring, and optimizing ad campaigns across various digital channels.

**Responsibilities:**

* Engaged in direct communication with clients to comprehend website requirements, contributing to project planning and the creation of Project Design and Plan Documents.
* Employed JavaScript to access DOM elements, modify their attributes and content, and respond to user events such as clicks and keypresses.
* Utilized JavaScript for event handling, defining functions triggered in response to specific user actions or browser events.
* Implemented animations on web pages using jQuery, creating smooth animations using predefined methods and building custom animation methods for complex effects.
* Employed Angular's component-based architecture to decompose the Kroger web app into reusable and manageable components, enhancing development efficiency.
* Leveraged Angular's two-way data binding feature to ensure seamless synchronization between the model and the view, facilitating real-time updates and a responsive user interface.
* Utilized Angular directives such as ngIf, ngFor, and ngSwitch to dynamically manipulate the DOM based on data conditions, enhancing interactivity and flexibility.
* Implemented state management techniques within Angular, such as RxJS observables or NgRx, to manage complex application states and data flow consistently and efficiently.
* Generated JSON responses from server-side applications using frameworks like Express.js in Node.js.
* Managed error handling and gracefully handled errors occurring during AJAX requests, such as network errors, server-side errors, or timeouts.
* Serialized and deserialized objects to and from XML format, commonly used in data exchange between applications.
* Developed strongly typed TypeScript reusable components and services to consume REST APIs using a component-based approach.
* Demonstrated expertise in utilizing Bootstrap's grid system to create flexible and responsive layouts for web pages, enabling precise placement of elements.
* Optimized performance by implementing techniques such as code splitting, lazy loading, and memoization to ensure smooth user interactions in Material UI-based applications.
* Implemented dark mode in projects, leveraging Tailwind CSS to create styles that seamlessly switch between light and dark themes.
* Contributed to better structure and accessibility of web pages by understanding semantic HTML5 elements.
* Created forms using HTML, including various input types, form validation, and techniques for improving user experience.
* Developed websites with CSS3 that adapt and respond to different screen sizes using media queries
* build pipelines using Grunt or Gulp to streamline the development process, ensuring consistent and efficient builds across different environments.
* Integrated PostgreSQL and SQL Server databases to manage structured data such as customer accounts, transactions.

**Client: Cipla Limited, Mumbai, India (July 2013 - March 2014)**

**Role: UI Developer Angular**

**Project Description:**

* Focused on redesigning an existing event management web application to enhance user experience, responsiveness, and overall functionality. The revamped application aimed to deliver enhanced interactivity, dynamic content delivery, and compliance with modern web standards.

**Responsibilities:**

* Designed and developed user interaction screens based on client requirements using HTML, CSS, JavaScript, jQuery, AJAX, and JSON, ensuring efficient and responsive design.
* Proficient in Angular.js, with hands-on experience in building dynamic, single-page applications (SPAs).
* Utilized Angular services and dependency injection for creating modular and reusable code, ensuring a clean separation of concerns and promoting testability.
* Built responsive and interactive user interfaces using Angular.js, improving user experience for thousands of customers.
* Implemented dynamic and interactive user interfaces using JavaScript to enhance user engagement.
* Developed JavaScript code to manage various aspects of user interaction and data manipulation directly within the web browser.
* Leveraged JavaScript to dynamically interact with and manipulate items on the webpage, ensuring seamless user experience.
* Efficiently manipulated HTML elements using jQuery selectors and methods to dynamically update HTML content, attributes, and CSS styles.
* Parsed JSON data from APIs and serialized data into JSON format as required, demonstrating proficiency in handling JSON data for data exchange in RESTful architecture.
* Interacted with RESTful APIs and effectively handled JSON data for seamless data exchange between clients and servers.
* Sent HTTP requests (GET, POST, PUT, DELETE) asynchronously using AJAX to enable seamless communication between the client and server.
* Created XML HTTP Request objects in JavaScript to interact with servers asynchronously, handling various XHR events such as onreadystatechange, onload, onerror, etc.
* Demonstrated the ability to read and extract data from XML documents using parsers like SAX (Simple API for XML) or DOM (Document Object Model).
* Created and validated XML documents against predefined schema structures using XSD, ensuring data integrity and compliance with standards.
* Showcased proficiency in TypeScript's advanced type features such as mapped types, conditional types, type guards, and key of operator, enabling the leverage of TypeScript's powerful type system to solve complex problems.
* Utilized TypeScript within various ecosystems to build scalable and maintainable web applications.
* Developed responsive websites using Bootstrap, ensuring optimal viewing and interaction across various devices and screen sizes.
* Customized Bootstrap themes and components to match specific design requirements and branding guidelines, enhancing visual appeal and consistency.
* Wrote SASS code using its enhanced syntax, including variables, nesting, mixins, and functions, for efficient CSS styling.
* Worked with SCSS (Sassy CSS) to develop custom components fully compatible with CSS syntax, ensuring code modularity and maintainability.
* Created custom components using Material UI's pre-built components and tailored bespoke components to project requirements, enhancing UI flexibility and functionality.
* Integrated Material UI with other React libraries and tools such as React Router, Redux, and Axios, ensuring seamless integration and efficient state management.
* Styled custom components using Tailwind CSS classes to create responsive navigation bars, cards, or buttons, leveraging Tailwind's utility classes for rapid development.
* Demonstrated expertise in building responsive web designs with Tailwind CSS, utilizing its responsive design utilities to create layouts adaptable to different screen sizes.
* Created interactive prototypes using Adobe XD, showcasing clickable prototypes to demonstrate user flows and interactions within applications.
* Proficient in creating wireframes and high-fidelity mockups using Adobe XD, translating ideas and concepts into visual designs aligning with project requirements.

# EDUCATION

**Bachelors in Computer Science 2009 - 2013**

Lovely Professional University