**Chandu Marru**

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**PROFESSIONAL SUMMARY**

* I have around **7 years** of front-end development and have experience in Developing User Interface (UI) Rich Web Applications using Front End/User Interface (UI) Technologies using **HTML, HTML5, CSS,** **Stencil.JS,**

**Python,** **CSS3, JavaScript, DHTML, DOM, XHTML, jQuery, Ajax, JSON, React JS, Flux, and Angular JS** throughout my career.

* Solid expertise in developing HTML pages based on DIV layout, W3C Compliance, Web 2.0, Web Accessibility, Web Usability, and Cross browser platforms.
* Worked with **React.js Virtual DOM** and React views, rendering using components.
* Implemented various screens for the front end using React.js and various predefined components from **NPM (Node Package Manager)**, browser, and redux library for Dependency management.
* Proficient in using AJAX for implementing dynamic web pages where the content was fetched via API calls and updated the DOM (JSON Parsing).
* Experience in all phases of SDLC like Requirement Analysis, Implementation, and Maintenance, and extensive experience with Agile and SCRUM.
* Excellent knowledge of JavaScript, CSS3/CSS, HTML5/HTML, Bootstrap, TypeScript and their behavior on different browsers. Expertise in React JS framework to develop the SPA.
* Built real-time analytics dashboards using React for the front end and Express.js for data collection and API endpoints, providing users with live data insights.
* Expertise in using Middleware, Redux-Promise to retrieve data from Back-End and to also perform RESTFUL services.
* Expertise in implementing easy-to-use Bootstrap plugins for building carousels, accordion, modal windows, etc. Extensive knowledge of developing single-page applications (SPAs).
* Proficient understanding of client-side scripting and JavaScript frameworks, including jQuery, Underscore, Prototype, Backbone.js, Angular, React, etc.
* Proficient in using Jest, a comprehensive JavaScript testing framework, to write and execute unit, integration, and end-to-end tests for web/Mobile applications.
* Experienced in working with Node.js and NPM modules like HTTP-server, Marathon, inquirer, path, mongo DB, Micro Services, Request, Elastic Search, express, luck, spark, and templating engines.
* Experience in integrating third-party plugins and modules into CMS environments, extending functionality, and enabling additional features without extensive custom development.
* Good Understanding of **Document Object Model (DOM) and DOM Functions**.
* Experience with **Firebug for Mozilla, Developer Toolbar for Chrome, IE Developer Toolbar for Internet Explorer, and Safari Web Developer**.
* Expertise in using Middleware, Redux-Promise to retrieve data from Back-End and to also perform RESTFUL services.
* Implemented EcmaScript6 (ES6) arrow functions, constants, block-scope variables, and class inheritance.
* Proficiently applied SCSS for responsive design, using media queries to adapt layouts and styles to different screen sizes and devices.
* Good knowledge in working with databases like Oracle, Python, MS SQL Server, PCF, MySQL, PL/SQL(Oracle), PostgreSQL, NoSQL, Mongo DB, and Cassandra along with web application servers like Apache Tomcat, Web logic, etc.
* Managed project dependencies using package managers like npm or yarn, ensuring a reliable and secure foundation for application development.
* Worked seamlessly with cross-functional teams, including designers, product managers, and quality assurance, to align development with overall project objectives.
* Proficient in using Django Rest Framework to build robust and scalable RESTful APIs.
* Experienced with Linux system administration, DevOps, AWS cloud platform, and PCF.
* Proficient with various IDEs like Eclipse, Android Studio, Notepad++ and Dreamweaver
* Proficient in working with web application's UI testing frameworks such as Karma, Jasmine, Protractor for Angular JS, Mocha, and Chai for React JS and Backbone JS.
* Experience in Version Control tools like GIT, and SVN for Source Code version management.

**TECHNICAL SKILLS**

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| **UI Web Technologies:** | HTML4/5, CSS3, SASS, Python, LESS, JavaScript, Typescript, jQuery, WordPress, JSON, Bootstrap, React JS, Redux, ES6 |
| **IDE, HTML Editor:** | Web Strom, Web Matrix, Bonita, Sublime, Dreamweaver, Eclipse, and Notepad++.p |
| **Databases:** | MONGO DB, PostgreSQL, Spunk data storage (Big data), Oracle 8i, 9i, 10g, SQL Server 2000, 2005 & 2008; IIS 6.0/7.0 |
| **Frameworks:** | React JS, Node JS, Angular JS |
| **Languages:** | C, C++, JAVA, MySQL, C#, PL/SQL, VB.Net, ASP.Net, web Services. |
| **Testing Tools and Logging Frame Works:** | Junit3.8/4.0, Load runner, Jasmine, Easy Mock, Manual Testing. |
| **Debugging Tools:** | Firebug, IE Tester, Chrome Elements Inspector |
| **Application/webservers:** | IBM Web Sphere, Apache Tomcat, BEA Web Logic 8.1, J Boss, HTTP Web Server. |

**PROFESSIONAL EXPERIENCE:**

**Client: TD BANK- Mt.Laurel, NJ Aug 2023 -Till date**

**Role: Senior React Developer**

**Responsibilities:**

* Developed screens for TD Bank portal using HTML5, CSS3, SASS, JavaScript, jQuery, Stencil.JS, and AJAX.
* Designed and implemented a secure login system allowing users to update their prescriptions for refills, enhancing user convenience and medication management using React Native's JSX syntax.
* Leveraged ES6 features to write modern, concise, and readable JavaScript code, enhancing development efficiency and code maintainability.
* Strong experience in working on user interface applications and professional web applications using HTML, Angular JS/2, Node JS, React JS, Stencil.JS, Backbone JS, Vue.js.
* Experience in writing unit tests, integration tests, and end-to-end tests for React applications using tools like Jest.
* Implemented View Model patterns in creating and managing Views, Partial view models, Web APIs using ASP.NET MVC, and Custom error pages.
* Implemented complex routing patterns and middleware stacks in Express.js, utilizing techniques like route parameter validation and dynamic middleware loading.
* Experience with debugging and troubleshooting React applications using tools like React Developer Tools.
* Used React 16.8’s new feature Hooks to rewrite/refactor front-end applications.
* Implemented dynamic content rendering by integrating CMS-provided functions and short codes into templates, enhancing the user experience.
* Used WebPack, Babel and gulp for transpilation(compilation) configuration for Typescript to be converted to JavaScript.
* Proficient in functional components and the latest React hooks, such as use State, use Effect, use Context, and custom hooks, to manage state and side effects effectively.
* Implemented responsive design principles with media queries and flexbox/grid layouts, ensuring seamless user experiences across various devices.
* Proficiently integrated Redux for centralized state management, enabling consistent data flow and state synchronization across the application.
* Implemented CORS [cross-origin resource sharing], allowing requests through hosts and JSON formats for sending data.
* Worked on Angular with TypeScript and other latest client-side technologies including ReactJS, ES6, Gulp, NodeJS, RxJS, Angular CLI, Webpack, Karma and Jasmine.
* Creating new web tools to manage healthcare/clinical data mapping.
* Designed and developed Microservices using Node.js and communication protocols like HTTP or AMQP, allowing for modular, scalable, and loosely coupled applications.
* Worked with JSON web tokens for authentication and authorization security configurations using Node.js.
* Created prototypes with component-based rendering using Web Packer bundler and Babel Transpiler.
* Implemented multi-threading using Node.js worker threads to perform computationally intensive tasks concurrently, optimizing resource utilization.
* Employed caching, image optimization, and lazy loading techniques within CMS setups to enhance website performance and reduce load times.
* Integrated Redux DevTools for real-time debugging and time-traveling through state changes, improving the development and debugging process.
* Developed theme-switching functionality by using SCSS variables and conditional styles, providing users with options to personalize the application's appearance.
* Strong understanding of testing best practices, including test-driven development (TDD) and behaviour-driven development (BDD) methodologies, to ensure robust and reliable React applications.
* Strong problem-solving skills and ability to efficiently troubleshoot and resolve complex issues in React applications, ensuring optimal app performance and user experience.
* Created and deployed code on cloud platforms such as Amazon Web Services (AWS).
* Working experience with AWS services: Lambda, EB, CloudFront, SNS, and Docker Containerization.
* Experience in deploying Elastic Beanstalk applications to various environments on AWS.
* Developed complex UI interactions and workflows by combining multiple hooks, promoting modular and maintainable code.
* Designed and implemented user interface for web-based customer application using HTML5, CSS3, Typescript, JSON, AJAX and Angular.
* Developed common we components which can be used across several applications using Stencil.JS
* Utilized Next.js data fetching methods like get Static Props and get Server-Side Props to pre-render React components on the server, optimizing initial page load times for users.
* Customized and extended Material-UI components to maintain a consistent design language across the Albertsons portal while adhering to brand guidelines and accessibility standards.
* Investigated the feasibility of integrating Flutter for specific features requiring advanced animations and custom UI elements in the mobile applications developed for Albertsons customers.
* Established automated CI/CD pipelines using Jenkins to streamline the deployment process for the Albertsons portal, ensuring faster delivery of features and bug fixes to production environments.
* Evaluated the suitability of Recoil for managing local component state in React applications, particularly for scenarios requiring shared state between sibling components without the overhead of a global store.
* Explored micro-frontend architecture patterns and evaluated tools like single-spa for modularizing the frontend codebase of the Albertsons portal, enabling independent development and deployment of individual features.

**Environment:** HTML5, CSS3, SASS, JSON, Python, Stencil.JS, React, React Native, Redux, JavaScript, TypeScript, React Hooks, SCSS, CMS, Material-UI, Jest, Healthcare, Axios, ES6, React HOC, React Async Await, React Promises, Saga, Thunk, JWT, Ag-grid, Jenkins, AWS Services: Lambda, S3, EC2, Elastic Beanstalk (EB), CloudFront, SNS, DynamoDB, Docker Containerization, AWS ALI (Assume Lambda Invocation), React Native Debugger, Flipper

**Client: Win Supply, Dayton, OH Nov 2022 to July 2023**

**Role: Sr React Developer**

**Responsibilities:**

* Led the end-to-end development of multiple projects, including both React web applications and React Native mobile applications, from concept to deployment.
* Designed and implemented robust application architectures utilizing container/presentational components, Redux for state management, and Material UI for the user interface.
* Developed enterprise-level web applications and mobile applications utilizing React, Stencil.JS, TypeScript, SCSS, JavaScript, and Material UI.
* Implemented design systems and pattern libraries to standardize the appearance and behaviour of components, ensuring a cohesive user experience across platforms.
* Utilized higher-order components (HOCs) to encapsulate generic functionality and promote consistency across components.
* Developed single page applications using Angular, Typescript, HTML5, CSS3, and Bootstrap.
* Implemented asynchronous operations with Redux Thunk middleware and Redux Saga middleware for handling data fetching and updates.
* Customized JIRA to integrate seamlessly into pre-existing systems, enhancing workflow efficiency.
* Employed ES6+ features such as arrow functions, template literals, destructuring, and spread/rest operators to write concise and modern code.
* Designed and implemented multifactor authentication (MFA), OAuth 2.0 flows, and single sign-on (SSO) solutions using Express.js.
* Utilized SCSS for advanced styling, optimizing styling workflows, and enabling the creation of reusable components with consistent design patterns.
* Integrated SOAP web services and RESTful API s for data consumption and interaction with backend systems.
* Implemented server-side rendering using Next.js for improved performance and search engine optimization (SEO).
* Developed Angular modules, routers and services using typescript.
* Deployed applications using Docker containers managed by Jenkins for continuous integration and continuous deployment (CI/CD) pipelines.
* Implemented mock backend, in Angular JS using Typescript for testing purposes.
* Followed Agile methodology and Scrum practices for software development, including regular communication of development status to team members.
* Collaborated closely with Java backend developers to understand backend systems and APIs, ensuring smooth integration with frontend React applications.
* Utilized GraphQL to efficiently fetch and manipulate data from Java backend services.
* Configured Docker environments for local development and deployment ensuring consistent and portable deployment environments across development, staging, and production environments, enabling seamless deployment and scalability of applications.
* Implemented WebSocket’s for real-time communication between frontend React applications and Java backend services. Developed features such as live updates and chat functionalities, leveraging WebSocket’s to enable instant data exchange and interaction between users and the application.
* Set up and maintain CI/CD pipelines using tools like Jenkins to automate testing, building, and deployment processes for React applications.

**Environment**: React, React Native, Redux, TypeScript, SCSS, JavaScript, CMS, Node.js, Express.js, GraphQL, Docker, Jenkins, Next.js, Material UI, Bootstrap.js, Angular.js, MySQL, SOAP, REST, Chrome Dev Tools, GitHub, JIRA, Linux.

**Client: AIG, Farmington, CT April 2022 to Oct 2022**

**Role: React Developer**

**Responsibilities:**

* Developed Single Page Applications (SPA) within a Micro Service Oriented Architecture using React.js, harnessing its component-based architecture and virtual DOM for efficient rendering.
* Implemented React components and utilized Redux for state management, enhancing modularity and maintainability of the frontend codebase.
* Designed and implemented dynamic pricing algorithms and personalized flight recommendation systems, leveraging React's flexibility and real-time data handling capabilities.
* Optimized application performance by employing React-Router techniques for client-side routing and asynchronous data retrieval using Axios.
* Utilized React Hooks for managing state and side effects, enhancing code readability and scalability.
* Integrated Elastic Search for caching to optimize application performance and enhance user experience.
* Developed secure file upload and download functionalities using React on the frontend and Node.js with Express.js on the backend, ensuring effective handling of multipart/form data and access control.
* Implemented RESTful web service calls for data interaction, utilizing Axios for asynchronous data fetching and updating.
* Deployed frontend application on AWS S3, configuring Cross-Origin Resource Sharing (CORS) to seamlessly consume RESTful services from external domains.
* Ensured security of RESTful web services using OAuth 2.0 standards, providing authentication and authorization mechanisms for user access.
* Documented and tested RESTful APIs using Swagger Framework, facilitating API understanding and testing through a rich UI.
* Implemented Continuous Integration/Continuous Deployment (CI/CD) pipelines using Jenkins, automating the build, test, and deployment processes for enhanced development efficiency.
* Collaborated with backend teams utilizing Spring Boot and Cassandra DB, ensuring smooth integration of frontend and backend components within the microservices architecture.
* Design, develop and test high-performance customer-facing application that meets accessibility and web browser standards for a website using **ReactJS, Redux-saga, Stencil.JS, React Hooks, React-Router, Python, JavaScript, HTML5, CSS3,** and **SASS**.
* Developed user interface by using **ReactJS,** and **Flux** for SPA development.
* Used **React-Router** to turn the application into Single Page Application.
* Maintained high-level expertise in **React state** management strategies, including **Redux**, **Redux Persist**, and **Redux-Saga**.
* Exclusively used **React-hooks** to handle application life cycle processes.
* Worked in using **ReactJS components, Forms, Events, Keys, Router,** **CMS,** **Stencil.JS, Animations,** and **Flux concepts.**
* Maintained states in the stores and dispatched the actions using **redux**.
* Implemented the Drag and Drop functionality using **React-Draggable**.
* Designed **CSS** templates for use on all pages on the website working with **CSS background, positioning, text, border, margin, padding,** and **table**.
* Applied optimization techniques to reduce page size and load times to enhance user experience using sprites.
* Used object-oriented Programming concepts to develop UI components that could be reused across the web application.
* Collaborated with backend developers to integrate RESTful APIs, ensuring seamless communication between the front-end and back-end systems, and enhancing the overall functionality and user experience of the application.
* Implemented performance optimization techniques such as code splitting, lazy loading, and caching strategies to enhance application speed and responsiveness.
* Collaborated with UX/UI designers to translate wireframes and mockups into interactive and visually appealing user interfaces, ensuring seamless user experiences across multiple devices and screen sizes.
* Integrated third-party APIs and libraries to enhance application functionality, such as incorporating authentication and authorization mechanisms using OAuth or JWT tokens.
* Conducted code reviews and provided constructive feedback to team members to maintain code quality and ensure adherence to coding standards and best practices.
* Extensively used **Git** for version controlling and regularly pushed the code to **GitHub**.

**Environment:**  Node JS, HTML5, CSS3-SASS, Twitter Bootstrap4.0, ES6 JavaScript, React-Axios, Stencil.JS, AJAX HTTP Service, TypeScript, OAuth2.0, React, React-native.

**Client: Ewall Solution, Hyderabad, India. Jan 2020 to Nov 2021**

**Role: React/Web Developer**

**Responsibilities:**

* Translate designs provided by the UI creative design team into functional user interfaces, ensuring cross-browser compatibility and performance.
* Designed and developed a user-friendly interface using Python, JavaScript, HTML, Healthcare, CMS, CSS, jQuery, and Bootstrap.
* Designed flash plugins for including different functionalities and content.
* Worked on integrating jQuery APIs with MVC pattern.
* Used AJAX frameworks like jQuery, and JSON to develop rich GUIs and was involved in performance tuning the website.
* Involved in bug fixing on functionality, performance, and designing issues with JavaScript and jQuery.
* Designed XML files for maintaining contents like video, images, and audio and displayed them in the Flash application.
* Involved in debugging HTML, CSS, and JS code using tools such as Chrome Inspector, and Firefox Firebug.
* Handled browser compatibility issues in browsers such as IE, Firefox, and Chrome.
* Maintain cross-browser compatibility and implement Responsive Design custom media queries.
* Used Grunt with Grunt file to minify the JS file in the whole application.
* Prepared Unit and System Testing Specification documents and performed Unit and System testing of the application.
* Developing XML classes for loading the data from XML files deployed at the server.
* Worked with Jasmine in testing and performed Unit testing and execution testing utilizing JUNIT.
* Extensively used Bootstrap framework and developed multiple UI components as well.
* Developed UI pages using media queries and made completely responsive.

**Environment:** JavaScript, HTML, CSS, XML, JSON, AJAX, jQuery, JUNIT, Bootstrap, Grunt, Git, Jasmine.

**Client: Red Centric, Hyderabad, India Aug 2017 – Dec 2019**

**Role: Associate Software Engineer**

**Responsibilities:**

* Developed UI screens using JSP, HTML, Stencil.JS, Python, CSS, and JavaScript.
* Worked on JSP, Servlets, Struts framework, and production support issues of the existing applications.
* Development of Action Forms, Action Servlets, Action, and Validating Action Forms in Struts framework.
* Implemented Struts Dispatch Action class and form bean classes using struts framework.
* Client & server validations were handled using JavaScript & Struts validate plug-in.
* Worked on the JAVA Collections API for handling the data objects between the business layers and the front end.
* Implemented Multithreading for handling multiple requests and for high performance.
* Created many Stored procedures and scheduled jobs to support our applications to create reports for customers.
* Build and maintain SQL scripts, indexes, and complex queries for data analysis and extraction.
* Develop a business continuity plan for the SQL Server Databases using JDBC drivers.
* Used spring for Dependency Injection for plugging in the Hibernate DAO objects for the business layer.
* Created an XML configuration file for Hibernate to map to SQL DB.
* Developed web services for sending and getting data from different applications.
* Used JDBC to access the Oracle database for accessing customer information.
* Used ANT built tool for compiling and generating war file.

**Environment:** Core Java, HTML, CSS, J2EE, JSP, HTML, JavaScript, Servlets, JMS, Hibernate, JDBC, SQL, DAO, Web Services, Oracle, ANT.

**Education:**

Bachelor in Computer Science, JNTUH.

Masters in Computer Science, Marist College.