**Venkat Ravula**

**UI Developer/React JS Developer**

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* Over **9+ years** of IT experience which includes **5+ years** of experience in developing front-end web applications using **React JS** and **5 years** of experience in a **UI/UX** environment
* Extensive experience in designing professional **User Interactive** **(UI**) **web applications** with **HTML4/5, CSS2/3, SASS, LESS, JavaScript, React JS, React-Flow, Redux, Flex, Bootstrap, Material-UI Framework, Modernizer JS, Media Queries, JSON,** and **XML**.
* Experience designing and developing UI for **Web Accessibility, Manual Testing, and ADA Automation testing.**
* Experience in accessibility standards & laws and code core components: HTML, SCSS, JavaScript, **WCAG 2. 0, WCAG 2.1, CVAA, ADA, Section 504, and Section 508.**
* Perform **audits on multiple webs and native apps** following **WCAG 2.0 and 2.1** standards using accessibility automated tools set **like ANDI, Perfecto, WAVE, axe, and WAT,** screen reader tools like JAWS, NVDA, Voiceover, Talkback, Narrator, and ZoomText.
* Experienced using different **manual and automated testing tools for accessibility** testing: JAWS, NVDA,

# Voiceover, Talkback, Color Contrast Analyzer, axe Chrome Extension, Acrobat Pro XI/DC, WAT, WAVE, Accessible Name & Description Inspector (ANDI), and Juicy Studio Accessibility Toolbar.

* Experience working in a scalable environment using **Agile/SCRUM, Test-driven development (TDD) methodologies.**
* Proficient in establishing databases on **AWS** through **Amazon** **RDS**, configuring storage using **AWS** **S3** **buckets**, and implementing instance backups directly to **S3** buckets.
* Proficient in setting up **EC2 instances** and deploying **Single Page Applications** (SPA) on **AWS S3** storage within the Amazon Web Services platform.
* Skilled in managing **EC2 instance** backups, securing applications with both Classic and **Application** **Load** **Balancers** (**ELB**), and implementing application logging by integrating **CloudTrail** with **Kibana** and **Elasticsearch**.
* expertise in deploying Single Page Applications (SPA) built with React JS on **AWS S3 Buckets** and **Route 53** and accomplished these deployments efficiently through **Command Line Interface (CLI)** configurations.
* Knowledgeable in implementing high-availability, fault tolerance, and auto-scaling using **AWS** **CloudFormation** within the **AWS** **environment**.
* Knowledgeable about implementing AWS security best practices, including **encryption**, **secure** **access** **controls**, and monitoring to protect React applications from threats.
* Developed **Web API** using **NodeJS** and hosted on multiple load-balanced **API** instances.
* Experience building isomorphic applications using React.js and Redux with **GraphQL** on the server side.
* Experience in working with **GraphQL** queries and using the Apollo **GraphQL** library.
* Experience applying the latest development approaches, including **MVC** in the browser, and event-driven applications using **AJAX, Object Oriented (OO) JavaScript, JSON, JSONP, and XML.**
* Experienced using **Reacts JS components, Forms, Events, Keys, Router, Animations,** and **Flux concept.**
* Experienced in **React.js** for creating interactive UI using **One-way data flow, Virtual DOM, JSX, and React Native concepts**.
* Experienced using **React JS components, Forms, Events, Keys, Router, Animations,** and **Flux concept.**
* Experienced in **React.js** for creating interactive UI using **One-way data flow, Virtual DOM, JSX, and React Native concepts**.
* Experienced in Node environment using **Node.js, NPM, Grunt, Gulp, and Groovy Bower.**
* Working experience in **CSS** Background**, CSS** Positioning**, CSS** Text**, CSS** Border**, CSS** Margin**, CSS** Padding**, CSS** Table**, Pseudo Classes, Pseudo Elements,** and **CSS** Behaviors in **CSS**.
* Working experience in responsive web design using **Bootstrap** framework and **CSS3** media queries.
* Expertise in **React Components** for **UX-Library** consisting of **Button, Checkbox, Input, Icons, Toggle Button, Dropdown, Multi-Level Dropdown,** and many more.

**Technical Skills**

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| --- | --- |
| **Web Technologies** | HTML/HTML5, CSS2/CSS3, DHTML, XML, XHTML, JavaScript, AJAX, JSON, Twitter Bootstrap, Apache, Java, GITHUB, J2EE (EJB, Servlets, JSP, JDBC, JMS), AWS, AWS CloudWatch, AWS CloudFront, AWS S3, EC2 instances |
| **JavaScript Libraries** | jQuery, Backbone.js, Node.js, React JS, Next JS, Redux JS, Flex, Material-UI, High charts JS, Kendo UI, React Testing Library, React-Flow. |
| **Web Servers** | HTTP Web Server, Apache Tomcat4.x/5.x/6.0 |
| **IDE & Editors** | Notepad++, Microsoft Visual Studio, Eclipse, Adobe Dreamweaver, Sublime Text, IntelliJ. |
| **Other Tools and Scripts** | Firebug, W3c Validator, IE tester, GIT and PowerShell, Bitbucket, Jira, GWCAG 2.0, WCAG 2.1, ADA, Section 508, CVAA, JAWS, NVDA, Voiceover, Talkback, Color Contrast Analyzer, axe Extension, Acrobat Pro XI/DC, WAT, WAVE, A Checker, Juicy Studio Accessibility Toolbar |
| **Database** | Mongo DB, SQL Server, Oracle, MYSQL, PostgreSQL, Amazon RDS, Amazon DynamoDB. |
| **Operating System** | Windows 2000/XP/Vista/7, Mac OS, Red Hat Linux, Unix. |
| **Graphics Editor** | Adobe Photoshop CS3, Adobe Illustrator CS3, and Adobe Experience Manager (AES). |

**Professional Experience:**

**Client: Apex Systems/ Centene Aug 2022 – Till Date**

**Role: UI Developer /React JS and Accessibility Developer**

**Responsibilities: -**

* the migration process of transitioning an established **JSP application** to the modern **React framework**. This initiative aimed to enhance the application's performance, user experience, and maintainability by leveraging React capabilities.
* Designed and constructed a dedicated **React component library** comprising standardized components tailored to the specific needs of the project. This library facilitated consistent UI design and efficient development, contributing to a cohesive user interface.
* Employed the **Redux library** to proficiently manage the state of the application. By centralizing and controlling the application's data flow, Redux ensured a robust and maintainable architecture for state management.
* Leveraged the **Apollo GraphQL** framework to seamlessly integrate backend services with the front-end application. This approach streamlined data retrieval and manipulation, enabling efficient communication between the client and server.
* Employed the **React Testing Library** to comprehensively test the codebase, ensuring thorough code coverage. This rigorous testing process validated the reliability and functionality of the application components.
* Actively resolved accessibility challenges, including but not limited to problems related to **screen readers, HTML structure, keyboard navigation, and color contrast**. These efforts aimed to make the application inclusive and usable by a diverse audience.
* Employed a range of accessibility tools such as **AXE dev tool, Sort Site, voice-over**, and various screen readers to conduct thorough accessibility testing. This meticulous approach ensured that the application met accessibility standards and provided an inclusive user experience.
* Adhered to the accessibility standards set forth by **WCAG 2.0** and **WCAG 2.1** to guarantee that the application met the highest accessibility criteria, making it accessible to individuals with diverse needs and disabilities.
* Employed the **CSS pre-processor LESS** to efficiently generate reusable styles for the application. This approach promoted consistency in design, reduced code duplication, and facilitated maintainability.
* Experience with **AWS** **Lambda** **functions** and **API** **Gateway** for building **serverless** **React** **applications**, ensuring efficient resource utilization and cost optimization.
* Deployed React applications on **AWS**, utilizing services like **AWS** **Amplify**, **AWS** **Elastic** **Beanstalk**, and **AWS** **S3** for scalable and reliable hosting.
* Worked on setting up **AWS Identity and Access Management (IAM)** roles and policies for **access** **control** and **security** **management**, ensuring robust protection for React applications.
* integrated React apps with **AWS** **databases** such as **Amazon** **RDS**, **Amazon** **DynamoDB**, and **Amazon** **Aurora** for efficient data storage and retrieval.
* Worked with **AWS** **CloudFormation** and **AWS** **CDK** for defining and managing AWS infrastructure as code, ensuring consistency and version control.
* Created a dedicated email integration service utilizing the **Windows Azure BPOST exchange service API**. This service enabled seamless communication and data exchange via email, enhancing the application's functionality and connectivity.
* Successfully implemented a monitoring solution using the **Azure management pack** for **System Center Operations Manager (SCOM)**. This solution enhanced real-time monitoring and management of the application's performance and health within the Azure environment.

**Client: Genpact/ Disney Aug 2021- Aug 2022**

**Role: UI Developer /React JS Developer**

**Responsibilities: -**

**PROJECT: DATA ACTIVATION FRAMEWORK (DAF)**

* DAF is a robust application designed for data analysis and visualization, enabling users to process extensive data from various streaming platforms. It offers a convenient query creation and storage feature, streamlining the visualization process for users.
* The frontend of DAF utilizes cutting-edge technologies such as **JavaScript**, **React JS** (with **Next.js**), D3.js, **Material UI**, **HTML**, and **CSS**. This modern stack ensures a responsive and visually engaging user interface**.**
* Created a user-friendly interface within DAF that empowers users to construct intricate **SQL** queries by providing input options and selections. This feature simplifies the process of crafting complex database queries.
* Implemented essential tools like **ESLint**, **Prettier**, and **CSS** **Modules** in the **ReactJS** application to maintain code quality and style consistency. This configuration ensures code cleanliness and adherence to best practices.
* Developed isomorphic applications by utilizing **ReactJS** and **Redux** on both the **client and server sides**. **GraphQL** was integrated on the server side to optimize data retrieval and manipulation, ensuring efficient application performance.
* Seamlessly integrated the **React Query Library** to enhance API calls by implementing caching techniques. This optimization strategy improves data retrieval efficiency and overall application performance.
* Utilized **AWS S3** for the storage and retrieval of static content, while leveraging **AWS CloudFront** to enhance latency performance.
* Participated in the integration of **CloudWatch Events** for AWS infrastructure using the "**c7n**" **framework**.

**PROJECT: (Authentic Web Application)**

* This application serves as a comprehensive tool for generating, populating, and auditing data across multiple data streaming platforms. It plays a crucial role in data management and quality assurance.
* Proficient in crafting intricate **Micro-Frontend Applications** using the **JavaScript Model-View-Controller** (**MVC**) **architecture**. This approach ensures modularity and maintainability in complex web applications.
* Engineered a unified React component framework that can be utilized across all **Micro-Frontend applications**. This framework promotes consistency and efficiency in development.
* Successfully transitioned **Micro-Frontend applications** to utilize the **Redux** **framework**. This migration improved state management and data flow within these applications.
* Engineered a unified **React component framework** that can be utilized across all **Micro-Frontend applications**. This framework promotes consistency and efficiency in development.
* Streamlined codebases by eliminating redundancy across Micro-Frontends and transforming the common code into an **NPM (Node Package Manager) library**. This modular approach enhances code maintainability and reusability.
* Proficiently handled **GraphQL** **queries** and leveraged the **Apollo GraphQL Library** to optimize data retrieval and interactions within the applications. This implementation improved efficiency and data management.
* Developed **Jenkins** jobs for the purpose of constructing **AWS** infrastructure from **GitHub** repositories containing **Terraform** **code**, while also overseeing and engineering Jenkins to handle **weekly** **builds** effectively.
* Responsible for supporting the production application and troubleshooting JavaScript applications hosted on **AWS**.
* Implemented **AWS Multi-Factor Authentication (MFA)** within **IAM** to enhance user access security, incorporating 2-step authentication methods such as **OKTA Verify** and **AWS Virtual MFA**.
* Successfully incorporated **Apache Kafka** into React.js applications, implementing a robust event-driven architecture. Employed Kafka's publish-subscribe model to foster scalability and enhance system modularity, resulting in loosely coupled components and streamlined real-time communication.
* Demonstrated proficiency in utilizing **Apache Kafka** for real-time data streaming and processing within React.js projects.
* Engineered responsive user interfaces by harnessing **Kafka's** capabilities to handle substantial data volumes efficiently. Implemented features such as Kafka Streams and seamless integration of React.js components with Kafka topics, contributing to enhanced application dynamism.

**Client: City of Corpus Christi, TX Nov 2019 – Aug 2021**

**Role: UI Developer / React JS Developer**

**Responsibilities: -**

* Involved in developing the front end using **React JS, Redux, Next Js, Flex, JavaScript, HTML5, CSS3, and Bootstrap.**
* Involved in the design of application framework using **J2EE guidelines** and different **J2EE design patterns** and **Object-Oriented Analysis** and **Design (OOAD) methodologies**.
* Followed Web Accessibility Guidelines while coding the website following WCAG 2.0 and providing **suggestions to designers and developers about accessibility.**
* Ensured to compile with the accessibility standards & laws and code core components: HTML, SCSS, JavaScript, **WCAG 2. 0, WCAG 2.1, CVAA, ADA, Section 504, and Section 508.**
* Perform **audits on multiple webs and native apps** following **WCAG 2.0 and 2.1** standards using accessibility automated tools set **like ANDI, Perfecto, WAVE, axe, and WAT,** screen reader tools like JAWS, NVDA, Voiceover, Talkback, Narrator, and ZoomText.
* Hands-on experience using different **manual** & **automated tools-** JAWS/Window-Eyes, WAVE, WAT.
* Designed **Cascading Style Sheets** for a uniform look of the web pages.
* Using **JavaScript, jQuery, and Kendo UI** for page user interactions.
* Creating a Responsive web application integrating **Twitter Bootstrap** with **React JS** and media queries.
* Experience designing and implementing complex **UI-rich** applications using **JavaScript MVC**.
* Developed various screens for the front end using **React Js** and used various predefined components from **NPM** and **Redux**.
* Involved in accessibility project planning and establishing accessibility testing programs.
* Developed various screens for the front end using **React Js** and used various predefined components from **NPM (Node Package Manager)** and **Redux library**.
* Used React 16.8’s new feature **Hooks** to rewrite/re-factor front-end applications and truncate 30% of codes (better maintenance).
* Developed the web application with the newest **React** features centralized with **Hooks**.
* Implemented **flux pattern** by using the **redux** framework as a core dependency.
* Architected and Developed for Large Scale **JavaScript** Applications with **React.js**
* Used Adobe Photoshop to create pixel-perfect designs to follow specifications set by the style guide.
* Designed business applications using web technologies like **NodeJS, React JS, HTML4/5, XHTML, CSS 2/3, and Bootstrap** based on the **W3C standards.**
* Used **Next Js** for server-side rendering for better performance and SEO.
* Used Server-side **Asynchronous JavaScript and XML (AJAX) techniques** to improve performance.
* Analyze the response of **JSON** to update **DOM.**
* Have worked on **AWS to fetch the pictures files from AWS to UI**.
* Have worked on **AWS** to integrate **the server-side and client-side code**.
* Components such as Tree, **Slide**-**View**, and **Table** Grid were built using **React Js.**
* Worked on **Cross-Browser compatibility** and fixed the bugs for several browsers.
* Used **agile** methodologies to minimize risk by developing software in short amounts of time.

**Environment**: Java 1.8, Spring, HTML 5.0, CSS3, Bootstrap, JQuery, JavaScript, ReactJS, Next JS, Hooks, Redux, Google LightHouse, Axe, SortSite, WebRTC, Flex, AJAX, JSON, WebStorm, Aws, GWCAG 2.0, WCAG 2.1, ADA, Section 508, CVAA, JAWS, NVDA, Voiceover, Talkback, Color Contrast Analyzer, axe Extension, Acrobat Pro XI/DC, WAT, WAVE, A Checker, Juicy Studio Accessibility Toolbar

**Client: Office Depot, Boca Raton, Florida June 2018 – Oct 2019**

**Role: UI Developer /React js Developer**

**Responsibilities: -**

* Developed the front end using **HTML5, JavaScript, ReactJS, AJAX, CSS3, BootStrap,** and **JSON**.
* Used **Bootstrap** framework for a responsive website.
* Has built **single-page** applications using **React** on top of a **Redux** architecture.
* For stateful management, replace with new Hooks like **useState, useEffect, useReducer,**and**useRef.**
* Used **ReactJS** to create **Controllers** to handle events triggered by clients and send requests to the server.
* Worked on the application as a **Node.js** developer to build different **REST APIs** for user, product, and checkout modules.
* Experience with **assistive technologies** such as JAWS, NVDA, and Voiceover.
* Writing test plans, cases, and **VPAT/GPAT for Section 508 Compliance testing.**
* Used **React.js** in developing the web application to bind the data/model retrieved from a database through services provided in a controller to the view using the scope.
* Experience in **DOM, React Props, and Lifecycle methods**, and working with the **React States** and **Events**.
* Experience building isomorphic applications using React.js and Redux with GraphQL on the server-side API
* Developed backend web services using **Node JS** and sorted dependencies using NPM.
* Added user validations and user permissions by using **Node.js**.
* Developed screen functionality using **HTML, CSS, JavaScript,** and **JQUERY**.
* Used **AJAX** to implement a part of the Customer Registration and View Customer information module functionality.
* Maintain the code base by frequent updates to revision control using **SVN**.
* Collaborated closely with business system analysts and the backend team to comprehensively grasp the project requirements and ensure the development of an appropriate user interface.
* Developed an internal application for Relationship Managers using ReactJS, Next Js, Express, and NodeJS.
* Updated the progress of the project in **JIRA**.
* Created wireframes & prototypes for **web & mobile app** **design** and **Mobile Application Design** for (Android & IOS).

**Environment:** HTML, HTML5, CSS, CSS3, JavaScript, jQuery, Bootstrap, React JS, Next JS, Hooks, Redux, Flex, ES6, AJAX, JSON, XML, Apache Tomcat, Git, JAWS, NVDA, Voiceover, Talkback, Color Contrast Analyzer, axe Extension, Acrobat Pro XI/DC, WAT, WAVE

**Client: Bed Bath & Beyond, Union, NJ. Jan 2017 - May 2018**

**Role: UI Developer /React Js Developer**

**Responsibilities: -**

* Developed dynamic web pages using **HTML/HTML4, CSS2/3, jQuery, Bootstrap, JSON, and Ajax**.
* Worked with **Agile methodology** for timely completion of tasks.
* Refine **HTML** and **CSS** code to increase the webpage Accessibility.
* Implemented Presentation layer using **CSS** Framework Wore-framing and **HTML5.**
* Implemented **AJAX** functionality using **JQUERY, JSON,** and **XML.**
* Involved in the development of pages using the **Bootstrap framework.**
* Build a filter bar to sort movies by name, rating, date, and title in descending and ascending order.
* Experience with **assistive technologies** such as JAWS, NVDA, and Voiceover.
* Writing test plans, cases, and **VPAT/GPAT for Section 508 Compliance testing.**
* Created and used **Reducers** that received Actions to modify the **store state**.
* Maintained states in the stores and dispatched the actions using **redux**.
* Working with **ECMA Script 6** features. For the build of **JSX** and **ES2015** (ES6) used **Babel, webpack.**
* Involved in **React JS Virtual Dom** and **React views**, rendering using components that contain additional components called custom **HTML** tags.
* Use **NPM** and **NPX** package runner to install necessary packages for projects.
* Used **React JS components, Forms, Events, Keys, Routers, Animations**, and **Flux concept**.
* Handled **Java** **Multi-Threading** part in the back-end component. One thread will be running for each user, which serves that user.
* Build **Microservices** for the delivery of software products across the enterprise.
* Designed and developed **Microservices** business components using **Spring Boot.**
* Designing and implementing scalable, **RESTful, and microservices**-based mobile back-end. The back end is written in **Java** using **Spring Boot** for simplicity and scalability.
* Involved in **Flexbox** for rendering **rows** and **columns**.
* Involved in writing application-level code to interact with **APIs and Web Services** using **AJAX and JSON**.
* Set up Jest and **Enzyme** for unit testing.
* Debug the application using **Firebug** to traverse the documents and manipulate the **Nodes** using **DOM** and **DOM Functions**.
* Responsible for maintaining current websites, including updating pages and uploading new content changes.

**Environment:** React.js, Redux, HTML5, CSS3, JavaScript, Bootstrap, ES6, Java 8, Springboot, Node.js, Next Js, JSON, Gulp, Webpack, Agile, GIT, Restful API, Sass, Less, JAWS, NVDA, Voiceover, Talkback, Color Contrast Analyzer, axe Extension, Acrobat Pro XI/DC, WAT, WAVE

**Client: eTeam Works Pvt. Limited, Hyderabad, India Sep 2015 – July 2016**

**Role: UI Developer/UX Developer**

**Responsibilities: -**

* Responsible for creating efficient design and developing User Interaction screens using **HTML,**
* **CSS3, JavaScript**, and **JQuery**.
* Used **JavaScript and JQuery** for user interactions on pages.
* Worked on creating a website for smart devices using responsive design and **media queries.**
* using **Bootstrap**.
* Used **JQuery** for service calls on pages to interact with the server for information.
* Rapid **prototyping** of design concepts.
* Experience with **jQuery**.
* Utilized various **JavaScript** and **jQuery** libraries for form validation and other interactive features.
* Involved in designing and developing **XML** Objects with **MySQL**.
* Testing the website on multiple browsers with their old and latest releases.
* Using complex Object-Oriented concepts to improve the performance of the websites.
* Worked closely with the **QA team** in fixing the reported bugs/defects and checking cross-platform.
* compatibility.
* Created forms to collect and validate data from the user in **HTML** and **JavaScript**.
* Active participation throughout the entire software development lifecycle from project inception to
* Code development and elaborate testing of the various modules.
* Developed SQL queries to insert, update, or delete operations on **MySQL** database.
* Responsible for authoring website functionality with **JavaScript, HTML, and CSS**.
* Used **CSS Sprites** to decrease the number of **HTTP** requests and load time of web pages.
* Worked on cross-browser compatibility issues.

**Environment:** HTML, CSS, JavaScript, DOM, MySQL, Ajax, XML, UNIX, SVN

**Client: Saven Technologies, India Jan 2013 – Aug 2015**

**Role: UI Developer/UX Developer**

**Responsibilities: -**

* Designed and developed various Web forms using **HTML, CSS**, and **JavaScript**.
* Coding site in **HTML, XML, CSS, Flash, MySQL,** and **JavaScript**.
* Involved in designing **UI screens** and created several mockups Using **HTML, CSS,** and **JavaScript**.
* Front-end validations are done using **JavaScript**.
* Participated in analyzing the requirements and depicted them through use cases and scenarios.
* Participated in unit testing, integration testing, and system installation.
* Involved in Web design and development for the **UI** interface design, graphic design for printed materials and presentations, illustration, and logo design. Used **HTML, CSS**, and **JavaScript**.
* Involved in complete **SDLC** – Requirement Analysis, Development, System, and Integration Testing.
* Developed non-functional **HTML and CSS** pages from the mockups and was involved in **UI** review with UI architect and Business Units.
* Tested and Debugged on the browser using **Firebug.**

**Environment:** HTML, CSS, MySQL, JavaScript, JQuery, AJAX, Windows XP, SVN