**­­­Radhakrishna Dodla**

**+1(469) 542-8690**

[**krishna.radha78dodla@gmail.com**](mailto:krishna.radha78dodla@gmail.com)

**PROFILE:** Having **9+ years** of professional experience as a Frontend Developer with expertise in React.js, Next.js, Angular, Material UI and Tailwind CSS for building modern and responsive web applications. Strong background in JavaScript, Typescript, HTML5, CSS3, and state management libraries such as Redux, Context API, and Zu stand. Skilled in integrating frontend applications with RESTful APIs and backend services, with a focus on performance optimization and usability.

**SUMMARY:­**

* **Front-End Development:** Expertise in building enterprise-level UI web applications using JavaScript, React.js, TypeScript, Angular (2+ to 14), Electron.js, and MVC frameworks. Proficient in HTML5, CSS3, Bootstrap, Material-UI, Tailwind CSS, and responsive web design (RWD).
* **UI/UX & SPA Development:** Skilled in developing single-page applications (SPA) with React.js and Angular, implementing features such as form validation, CRUD operations, grid lists, search, sorting, pagination, authentication, and advanced custom directives.
* **Integration & API Development:** Experience in integrating USB and Bluetooth devices like printers, barcode scanners, and payment gateways (Stripe, Heartland). Hands-on experience with RESTful web services, AJAX, JSON, and API calls.
* **Web Application Architecture:** Strong understanding of scalable web application design, leveraging frameworks like ASP.NET MVC, Sitecore, and Apache Tomcat. Experience in event-driven programming and MVC-based browser applications.
* **3D & Computational Graphics:** Proficient in 3D engines like Blender/SolidWorks with OpenGL/WebGL/Three.js for rendering, algebraic computations, and architectural design.
* **Salesforce Development:** Hands-on experience developing Salesforce Lightning Web Components (LWC) and Aura framework, implementing solutions for business requirements.
* **Cloud & DevOps:** Experience working with cloud platforms like AWS and Microsoft Azure, along with configuration management tools such as GitHub, Bitbucket, Azure Repos, SVN, CVS, and Mercurial.
* **Testing & Quality Assurance:** Proficient in writing unit test cases using Jasmine and Jest for front-end applications.
* **Networking & Performance Optimization:** Knowledge of networking protocols including HTTP, DNS, TCP/IP, and UDP. Skilled in cross-browser compatibility testing across Chrome, Firefox, Safari, and Edge.

**TECHNICAL SKILLS:**

* **Languages & Technologies:** JavaScript (ES6+), TypeScript, HTML5, CSS3, SASS, LESS
* **Frameworks & Libraries:** React.js, Next.js, Redux, Redux-Thunk, Redux-Saga, Zustand, Context API, Angular (12+), Material-UI (MUI), Kendo UI, Bootstrap, Tailwind CSS, Salesforce Lightning Web Components (LWC)
* **State Management & Data Handling:** Redux, Redux-Thunk, Redux-Saga, Zustand, Context API, Immutable.js
* **API Integration & Authentication**: RESTful APIs, GraphQL, JSON Web Token (JWT), OAuth, WebSockets, MQTT
* **Desktop & Cross-Platform Development:** Electron.js, React Native
* **Build & Development Tools:** Webpack, Babel, NPM, Yarn, Gulp, Vite
* **Testing & Debugging:** Jest, Mocha, Cypress, Enzyme, React Testing Library
* **Cloud & Deployment:** AWS (S3, Lambda, API Gateway, CloudFront, ECS, EKS), Azure (Azure Functions, App Services), Docker, Kubernetes (K8s, MicroK8s), CI/CD (Jenkins, GitHub Actions, Azure DevOps)
* **Version Control & Collaboration:** Git, GitHub, Bitbucket, Azure Repos, JIRA, Agile (Scrum, Kanban)
* **Performance Optimization & Benchmarking:** Code Splitting, Lazy Loading, Memoization, React Profiler, Lighthouse, Web Vitals
* **Payment & Device Integrations:** Stripe, Heartland, Clover, Evertec (T650C), Freedom Pay, Barcode Scanners, Printers
* **Geospatial & Mapping Technologies:** GIS, ArcGIS API

**PROFESSIONAL EXPERIENCE:**

**Client: Digit7, Richardson, TX  Oct 2022 – Present**

**Role: Lead Frontend React Developer**

**Responsibilities:**

* Architected and developed **enterprise-level 3D-enabled web applications** using **JavaScript**, **TypeScript**, **React.js**, and **Next.js**, aligning with 3D Cloud platform standards.
* Collaborated with cross-functional teams to contribute to the **3D Cloud platform architecture**, focusing on reusable, performant components for interactive visualization and real-time experiences.
* Built and maintained scalable, isomorphic applications with **server-side rendering (SSR)** and dynamic routing using **Next.js** to optimize SEO and rendering performance.
* Refactored legacy JavaScript projects into **strictly typed TypeScript** codebases, introducing interfaces, enums, generics, and utility types to improve code maintainability and safety.
* Created advanced front-end logic for **3D model rendering**, data binding, and state synchronization using **Redux**, **Context API**, and **Immutable.js**.
* Designed and implemented secure authentication flows using **JSON** **Web Tokens (JWT)** for modern authorization mecha- nisms.
* Utilized **Next.js API routes** to build backend services like authentication, form submissions, and REST endpoints within the frontend codebase.
* Built custom middleware and edge functions using **Next.js Edge Runtime**, enabling low-latency responses and smart prefetching from edge locations.
* Refactored **JavaScript** codebases to **TypeScript**, implementing interfaces, generics, and utility types to enhance type safety and improve developer productivity.
* Integrated **TypeScript** with **React** and **Redux**, leveraging strict types for actions, reducers, and components to ensure predictable state management and better scalability.
* Built isomorphic **React** applications, enhancing user experience with **server-side rendering (SSR)** and improved SEO.
* Integrated **RESTful APIs** for seamless communication between front-end and back-end services.
* Implemented **TypeScript** with **React** and **Redux**, enforcing strong type definitions for **state management**, **actions**, **reducers**, and **middleware** to improve code consistency and debugging.
* Configured and optimized **TypeScript** compiler settings **(tsconfig.json),** enabling strict mode, module resolution, and path aliases for better project structure and performance.
* Utilized modern front-end build tools like **Babel**, **Webpack**, and **NPM**, streamlining development and deployment pro- cesses.
* Developed cross-platform Electron.js applications, packaging for Debian (.deb) environments and ensuring seamless desk- top experiences.
* Implemented Kendo UI components with Right-to-Left (RTL) support and PDF processing capabilities.
* Optimized front-end performance by benchmarking and profiling React applications, improving load times and responsive- ness.
* Applied **WebSockets** and **MQTT** for real-time data streaming, ensuring efficient live updates and data handling.
* Integrated front-end solutions with hardware peripherals, including payment devices (**Evertec, Stripe, Heartland, Clover, Freedom Pay**), printers, and barcode scanners.
* Designed and developed **Material-UI (MUI)** based UI components, enhancing aesthetics and responsiveness across devices.
* Collaborated with back-end teams to optimize API calls, reduce latency, and improve application efficiency.
* Automated **CI/CD pipelines** for front-end deployment using **Jenkins** and **Azure DevOps**, ensuring smooth delivery cycles.
* Worked with **Dockerized** applications, deploying on **AWS** and **Azure**, and managing microservices using MicroK8s.
* Led migration of legacy applications from **React Native** to **Electron.js**, enabling better cross-platform support.
* Actively participated in third-party API integrations (e.g., Nevotek, SolutionInc), ensuring seamless connectivity and
* Utilized **JIRA** and **Azure Dashboard** for issue tracking and project management in agile development cycles.

**Environment :** JavaScript (ES6+), Typescript, React.js, Redux, Redux-thunk, Context API, Immutable.js, Electron.js, Node.js, Webpack, Babel, RESTful APIs, JWT, Material-UI (MUI), Kendo UI, FastAPI, MongoDB, Oracle Database, Docker, Kubernetes, MicroK8s, MQTT, WebSockets, AWS, Azure, Jenkins, JIRA, Agile Methodology.

**Client: JC Penny, Frisco, TX  July 2022 – Oct 2022**

**Role: Sr. Front-End Developer**

**Responsibilities:**

* Developed responsive and scalable web applications using **React.js, Redux, JavaScript (ES6+), Typescript, HTML5, CSS3**, and **Material- UI.**
* Built reusable **React** components to enhance UI consistency and maintainability.
* Implemented Redux for centralized **state management**, optimizing data flow and component rendering.
* Utilized **React Hooks** (**useState, useEffect, useContext, useReducer**) for efficient component state management.
* Integrated **RESTful** **APIs** for seamless data fetching and backend interaction.
* Developed **Single Page Applications (SPA)** using React **Router** for smooth **client-side** navigation.
* Applied **Lazy Loading** and **Code Splitting** techniques to improve performance and reduce bundle size.
* Implemented form validation using **Formik** and Yup for optimized user input handling.
* Developed and maintained scalable front-end applications using **TypeScript**, ensuring type safety and reducing runtime errors.
* Refactored existing **JavaScript** codebases to **TypeScript**, enhancing maintainability, readability, and overall application robustness.
* Implemented advanced **TypeScript** features, including generics, interfaces, and utility types, to enforce strict type checking and prove code reliability.
* Debugged and optimized **React** applications using **React Developer Tools**, **Chrome DevTools**, and **Lighthouse**.
* Ensured cross-browser compatibility across **Chrome, Firefox, Edge, and Safari.**
* Conducted unit and integration testing using **Jest**, **Enzyme**, and **React** Testing Library.
* Automated builds and deployments using **CI/CD pipelines** with **Jenkins** and **GitHub** Actions.
* Worked with modern front-end build tools like **Webpack**, **Babel**, and **NPM** to optimize performance.
* Implemented modern authentication mechanisms using **JSON Web Token (JWT)**.
* Worked with Immutable.js for data structure optimization and performance enhancements.
* Participated in **Agile** (Scrum) development process, including sprint planning, daily stand-ups, and retrospectives.
* Collaborated using **Git**, **Bitbucket**, and **Azure Repos**, ensuring smooth version control.
* Mentored junior developers and conducted code reviews to maintain best practices and performance optimization.

**Environment:** React.js, Redux, JavaScript (ES6+), Typescript, HTML5, CSS3, Material-UI, Jest, Enzyme, Git, Webpack, Babel, RESTful APIs, GraphQL, JSON Web Token (JWT), Agile (Scrum), Azure Repos, CI/CD, Jenkins, Immutable.js.

**Client: Nextiva, Scottsdale, AZ  Aug 2021 – July 2022**

**Role: Sr. Front-End Developer**

**Responsibilities:**

* Built modern, responsive web applications using **React.js**, **Next.js**, **Tailwind CSS**, and **Material-UI**.
* Developed and maintained state management using **Redux** and **React Context API**.
* Designed modular, reusable UI components to improve development efficiency and scalability.
* Integrated **RESTful APIs** and optimized API calls for enhanced application performance.
* Conducted unit and integration testing using **Jest**, **Mocha**, and **Cypress**, ensuring high-quality code.
* Optimized application performance through techniques like lazy loading, memoization, and efficient DOM manipulation.
* Developed **Salesforce Lightning Web Components (LWC)** for seamless CRM integration.
* Created **CI/CD workflows** for automated front-end builds and deployments using **GitHub Actions** and **Jenkins**.
* Participated in **Agile Scrum methodologies**, including sprint planning, daily stand-ups, and retrospectives.
* Resolved UI bugs and cross-browser compatibility issues, ensuring a seamless user experience across devices.
* Developed reusable React components and modular functions for future scalability.
* Collaborated with engineers and product managers to define user stories and scenarios for intuitive interfaces.
* Wrote high-quality, testable code compatible across modern browsers and devices.
* Managed UI deployments for **Development (Dev)** and **User Acceptance Testing (UAT)** environments.
* Debugged and fixed defects reported during System & UAT phases by QA and clients.
* Integrated **RESTful web services** using **GET**, **POST**, **PUT**, and **DELETE** methods.
* Demonstrated strong communication, analytical, and problem-solving skills while working with cross-functional teams.

**Environment:** React.js, Next.js, Tailwind CSS, Redux, Context API, RESTful APIs, Material-UI, Jest, Mocha, Cypress, AWS, Jenkins, Salesforce LWC, Agile Scrum.

**Client: Dish Network, Englewood, CO  Aug 2020 – Aug 2021**

**Role: Senior Front-End Developer**

**Responsibilities:**

* Developed responsive and scalable web applications using **React.js**, **Redux**, **JavaScript (ES6+)**, **HTML5**, **CSS3**, and **Material-UI**.
* Built reusable and modular **React** components to enhance UI consistency and maintainability.
* Utilized **React Hooks** (useState, useEffect, useContext, useReducer) to manage component state efficiently.
* Implemented **Redux** for centralized state management, optimizing data flow and component rendering.
* Integrated **RESTful APIs** and **GraphQL** for seamless data fetching and interaction with backend services.
* Developed a **Single Page Application (SPA)** with **React Router** for smooth client-side navigation.
* Applied **Lazy Loading** and **Code Splitting** techniques to improve performance and reduce bundle size.
* Implemented form validation and data binding using **Formik** and **Yup** for efficient user input handling.
* Debugged and optimized **React** applications using **React Developer Tools**, **Chrome DevTools**, and **Lighthouse**.
* Ensured cross-browser compatibility and responsiveness across **Chrome**, **Firefox**, **Edge**, and **Safari**.
* Conducted unit and integration testing using **Jest**, **Enzyme**, and **React Testing Library** to ensure code quality.
* Automated builds and deployments with **CI/CD** pipelines using **Jenkins** and **GitHub Actions**.
* Participated in **Agile (Scrum)** development process, including sprint planning, daily stand-ups, and retrospective meetings.
* Managed version control and collaborated effectively using **Git**, **Bitbucket**, and **Azure Repos**.
* Mentored junior developers and conducted code reviews to ensure adherence to best practices and code optimization.

**Environment:** React.js, Redux, JavaScript (ES6+), HTML5, CSS3, Material-UI, Jest, Enzyme, Git, Webpack, Babel, RESTful APIs, GraphQL, Agile (Scrum), Azure Repos, CI/CD, Jenkins.

**Client: TD Bank, Marlton, NJ  June2019 – Aug 2020**

**Role: Front-End Developer**

**Responsibilities:**

* Developed reusable, stable React components and stand-alone functions to be integrated into future pages.
* Enhanced dynamic functionality by creating and dispatching Action Creators to trigger Actions.
* Utilized Reducers to modify the Store State Tree based on dispatched Actions.
* Implemented **Redux-Saga** middleware for managing side effects and handling multiple actions.
* Worked on mobile applications using **React Native** to develop mobile scanner functionality.
* Created UI components that seamlessly functioned on both client and server sides (**Node.js, Express.js**).
* Conducted unit testing of various modules, generating test cases with **Mocha**, **Enzyme**, and **Chai**.
* Implemented tracking code on all user touchpoints to send event data to Google Analytics.
* Designed authentication for an **ASP.NET** application using .NET Framework, MVC architecture, and IIS security model.
* Performed ongoing risk assessments and audits to ensure WCAG 2.0 AA compliance for front-end accessibility.
* Used RESTful web services for performing **POST**, **PUT**, **DELETE**, and **GET** requests.
* Addressed defects raised during System Integration Testing (**SIT**) and User Acceptance Testing (**UAT**).
* Developed UI components with **HTML**, **CSS,** and **JavaScript** to retrieve data via **SQL** from Oracle databases.
* Supported SIT and UAT environment releases for UI deployments.
* Managed defect tracking with JIRA and participated in daily standups, sprint reviews, and kickoffs.

**Environment:** HTML5, CSS3, SASS, Emotion JS (CSS in JS), Bootstrap 4, React JS, Redux-Saga, AJAX, JSON, Node.js, Gulp, NPM, MongoDB, Oracle, Mocha, Chai, Enzyme.

**Client: Medico Healthcare Services & Technologies, Hyderabad, India  Jan 2016 – Nov 2018**

**Role: UI Developer**

**Responsibilities:**

* Actively participated in daily **Scrum** meetings, sprint estimation, and requirement review sessions to analyze user stories and prioritize tasks.
* Designed and developed intuitive User Interfaces using **HTML**, **CSS**, and **JavaScript**.
* Created a **JavaScript** library for rendering domain-specific layout **XML** to web interfaces.
* Maintained and enhanced existing UI applications, incorporating **CSS**, **jQuery**, **AJAX**, **JavaScript**, **JSON**, and **HTML** to improve functionality and performance.
* Implemented client-side validation by writing custom **JavaScript** and **jQuery** functions for web applications.
* Developed and optimized various UI screens across consumer-facing and internal web applications.
* Integrated with APIs and web services, utilizing **AJAX**, **JSON**, and **XML** for data exchange.
* Designed and developed intranet applications using **JavaScript**, **CSS**, and other web technologies.
* Collaborated with backend developers to interface **JavaScript**, **AJAX**, and **JSON** with Java controllers to enable seamless data interaction.
* Delivered effective solutions for UI enhancements, addressing both business and technological needs.
* Defined technical requirements based on business specifications to guide development and implementation.
* Ensured cross-browser compatibility and compliance with web standards by resolving UI bugs across different browsers.
* Created complex desktop-style UIs, including configuration wizards and interactive reports, using HTML, CSS, JavaScript, and AJAX.

**Environment:** HTML5, XHTML, CSS3, JavaScript, jQuery, AJAX, XML, JSON.