**Ramya K**

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## **Professional Summary**

* **Over 10 years of extensive experience in the IT industry**, specializing in the development, analysis, and testing of user interface applications. Proficient in a wide range of technologies including **Angular (versions 2 through 19), ReactJS, HTML5, CSS3, Material-UI, Angular Material, PrimeNG, Bootstrap, JavaScript, TypeScript, jQuery, AJAX, JSON, React Native,** and **NodeJS.**
* Actively Involved in all phases of the **Software Development Life Cycle (SDLC),** including requirement gathering, analysis, design, development, implementation, testing, and maintenance of projects, ensuring comprehensive and high-quality deliverables.
* Have experience working within **Agile methodology**, effectively collaborating with cross-functional teams to deliver high-quality software solutions through iterative development and continuous feedback.
* Extensive expertise in developing web and mobile applications using **Angular (versions 2 through 19)**, with a strong command of **RxJS** for reactive programming and **Redux** for state management.
* Strong Knowledge of web-related concepts like MVC Design Pattern, HTTP, HTTPS, Web Services, RESTful Services, SSL and Client-Server Architecture.
* Proficient in implementing **Object-Oriented JavaScript concepts,** enhancing code modularity and reusability.
* Experienced in working with **JavaScript,** including extensive use of the **Document Object Model (DOM) and** DOM functions to create dynamic and interactive web applications.
* Expertise in creating **Single Page Applications (SPAs) using AngularJS and various versions of Angular (2 through 19),** ensuring seamless and efficient user experiences.
* Extensive experience in developing applications using the **MVC (Model-View-Controller) design pattern,** ensuring organized and maintainable code structures.
* Hands-on experience with **Angular,** utilizing **Directives, Services, Observables, and** Pipes to build dynamic and efficient applications.
* Extensive knowledge of React JS features, including Components and **React Flux Architecture**, with expertise in developing **Single Page Applications (SPAs)** using **React Router**.
* Highly proficient in **CSS3, including Media Queries, Animations, Box Model, Positioning, and Layouts,** to create responsive and visually appealing web designs.
* Skilled in creating **prototypes** and **wireframes,** and proficient in developing user interfaces using **PrimeNG** and **Angular Material UI** components.
* Proficient in server-side technologies, particularly **NodeJS**, and adept at utilizing its integrated tools such as **NPM, Yarn, and Webpack** for efficient development and build processes.
* Skilled in writing efficient queries for databases such as **MySQL and MongoDB,** ensuring optimal data retrieval and manipulation for various application needs.
* Proficient in working with various Integrated Development Environments (IDEs), **including Visual Studio Code, Notepad++, Sublime Text, Eclipse, IBM Rational Application Developer (RAD**), and **WebStorm**, ensuring efficient and effective development workflows.
* **Extensive experience working with major browsers** such as **Google Chrome, Mozilla Firefox, Safari, and Internet Explorer**,adept at resolving cross-browser compatibility issues to ensure consistent user experiences across different platforms**.**
* Utilized JIRA and ServiceNow for efficient bug and issue tracking. Experienced in web application debugging using tools such as SonarQube, Firebug, and Chrome Developer Tools to identify and resolve issues effectively.
* Well-versed in testing frameworks such as Jasmine and Karma, ensuring robust and reliable application testing.
* Proficient in working with **Jenkins** for continuous integration and delivery**,** with extensive experience in Agile development methodologies such as **Scrum** and **Kanban**, ensuring efficient and iterative software development processes.
* **Contributed to the development of web applications utilizing Responsive Web Design (RWD)** principles, ensuring optimal user experiences across various devices and screen sizes.
* **Demonstrated ability to work independently and** collaboratively within a team, effectively managing multiple tasks. Possess strong interpersonal, oral, and written communication skills, ensuring clear and effective interactions with colleagues and stakeholders.
* **Adept at understanding business requirements** and effectively interacting with customers, ensuring clear communication and alignment with their needs and expectations.
* **Collaborated closely with clients** to understand their requirements and designed user interfaces that effectively met their needs, ensuring a user-centric approach and high client satisfaction.
* Skilled in graphic design, including the creation of buttons, logos, banners, and images, utilizing industry-standard tools such as **Photoshop** and **CorelDRAW** to produce visually appealing and professional graphics.

## **Education**

* Master of Science in Computer Engineering
* Bachelor of Technology (BS) in Electronics & Communications

## **Technical Skills**

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| **Web Technologies:** | HTML4/5, CSS, CSS3, Vanilla JavaScript, Typescript, ES6, JSON, AJAX, jQuery, DOM, XHTML, JSF, JSP, Servlets, XML, XSLT, JDBC, Spring, Spring Boot, RESTful Services, Microservices, SOAP, WCAG |
| **Programming Languages:** | Java, C/C++, SQL, PL/SQL, UML, Python, TypeScript, Ruby on Rails, Shell and Perl |
| **Database Technologies:** | MYSQL, SQL Server, MongoDB, Cassandra, Oracle7.x/10g/11g, Redis, PostgreSQL, Firebase |
| **Operating Systems:** | Windows, Linux, Mac OSX, UNIX |
| **Frameworks:** | Angular JS, Angular2/4/5/6/7/8/9/11/13/15/17/18/19, NodeJS, ReactJS, React Native, BackboneJS, Underscore.js, Vue.js, d3js, Can.js, Ember.js, Ext.js, Cordova, Play. |
| **JavaScript Libraries:**  | Require.JS, Express.JS, Immutable.js, normalizr.js |
| **IDE:** | Eclipse, Visual Studio Code, Notepad++, WebStorm, Dreamweaver, STS. |
| **Configuration Management:** | Maven, TFS, GIT, SVN, Grunt, Gulp, Gradle, NPM, NVM, Bower, CVS, Docker Desktop |
| **Testing Tool:**  | Jasmine, Karma, Jest, Protractor, Selenium, Mocha, Postman and Cucumber |
| **Servers:** | Apache Tomcat, WebLogic, IIS, lite, JBoss |
| **Others:** | Chrome Developers Tool, Firebug, JIRA, Azure Devops, Rally, Bitbucket, Bamboo, Jenkins, GIT, GitHub, ServiceNow, Adobe Photoshop, MS Office, IOS Simulator, Source Tree, XCode, Restful Services, Spring, Hibernate, SASS, Scala, Docker, Gradle, Grunt, Gulp, Redux Dev Tools |

## **Professional Experience**

**Elevance Health, Virginia Oct 2024 – till date**

**React/Angular/UI Developer**

Environment:

React 16, Material-UI, Reactstrap, Axios, Angular18, Angular 19, Angular Material, PrimeNG, Bootstrap, RxJS, NgRx, NodeJS, Redux, HTML5, CSS3, SCSS, TypeScript, JavaScript, JSON, NPM, NVM, GIT, BitBucket, GitHub, Postman, PostgreSQL, Docker Desktop, JIRA, Bamboo, Microsoft Visual Studio Code, WCAG 2.1**,** Jasmine, Karma, Protractor, Chrome and Redux Dev Tools

Responsibilities:

* **Developed and maintained** multiple web applications using **React and Angular**, ensuring robust performance and delivering user-friendly interfaces.
* **Participated in design and architectural discussions,** contributing to strategic decision-making processes.
* **Designed and developed interactive user interfaces** using React library, Material UI, Reactstrap, RxJS, NodeJS, jQuery, and JSON.
* **Developed and implemented RESTful API integrations** and optimized state management using Redux, significantly improving application performance and ensuring seamless data flow.
* **Developed and managed containerized microservices applications** using **Docker Desktop**, enhancing deployment efficiency and application scalability.
* **Developed reusable React components with dynamic data handling through props**, improving code modularity and reducing redundancy.
* **Managed complex state** across multiple components using the **useState** and **useReducer** hooks, enhancing application performance and maintainability.
* **Designed and implemented complex navigation structures using React Router**, ensuring seamless user experiences and efficient route management.
* **Successfully integrated RESTful APIs** with React components, utilizing hooks for fetching and managing data asynchronously, and updating UI in real time.
* **Proficient in Angular Lifecycle Hooks, Dependency Injection, and Data Binding Concepts,** ensuring efficient component management, service integration, and seamless data flow.
* **Implemented data sharing between parent and child components** using @Input decorator, @Output decorator, EventEmitter, and @ViewChild, promoting component communication and reusability.
* **Implemented both Template-driven and Reactive Forms** using FormControl, FormGroup, and FormBuilder, ensuring robust form management and validation.
* **Implemented routing and navigation** in the application by configuring **RouterModule** and utilizing **Child Routes, Route Guards** and **ActivatedRoute** to ensure secure and efficient navigation.
* **Extensively Implemented Promises, RxJS Observables, Subjects, and Behavior Subjects** to efficiently manage asynchronous data and events, ensuring responsive and reactive application behavior.
* **Utilized rich UI components** from Material-UI, Angular Material, PrimeNG, Reactstrap and Bootstrap libraries to develop visually appealing and functional applications.
* **Extensive hands-on experience in creating and styling web components** using HTML and CSS, ensuring responsive and user-friendly designs.
* **Utilized the Axios library to efficiently manage HTTP requests** and handle asynchronous data fetching within React applications, enhancing data retrieval and overall application performance.
* Leveraged Angular **HttpClient** to efficiently perform HTTP **GET** and **POST** requests, ensuring seamless data retrieval and submission.
* **Built and managed reusable components with WCAG 2.1 AA compliance in React application** by implementing semantic HTML5 and WAI-ARIA roles, optimizing color contrast to meet 4.5:1 ratio, and enabling full keyboard navigation.
* **Used Bamboo for Continuous Delivery/Continuous Integration** to automate build and deployment processes, ensuring efficient and reliable application delivery. Employed **GIT** for version control and **Microsoft Visual Studio** as the Integrated Development Environment (IDE).
* Involved in Creating user stories in **JIRA**, providing accurate estimates as part of the **Agile** development process, contributing to effective sprint planning and execution.

**Flagstar Bank, Troy, MI June 2020 – Sep 2024**

**Angular/UI Developer**

Environment:

Angular6/7/8/9/11/13/15/17, Angular Material, PrimeNG, Bootstrap, RxJS, NgRx, NodeJS, Redux, HTML5, CSS3, SCSS, TypeScript, JavaScript, JSON, jQuery, AJAX, NPM, NVM, Bower, GIT, BitBucket, GitHub, Postman, MYSQL, AWS, JIRA, Azure Devops, Bamboo, Microsoft Visual Studio Code, Jasmine, Karma, Protractor, Chrome and Redux Dev Tools

Responsibilities:

* **Developed new Angular modules with reusable components** to seamlessly integrate and interact with existing angular modules, aligning with business requirements.
* **Participated in design and architectural discussions,** contributing to strategic decision-making processes.
* **Designed and developed interactive user interfaces** using Angular Framework, Angular Material, PrimeNG library, RxJS, NgRx, NodeJS, jQuery, and JSON.
* **Proficient in Angular Lifecycle Hooks, Dependency Injection, and Data Binding Concepts,** ensuring efficient component management, service integration, and seamless data flow.
* **Implemented custom pipes and used in-built pipes** for data transformation and observables, enhancing data presentation and manipulation.
* **Implemented data sharing between parent and child components** using @Input decorator, @Output decorator, EventEmitter, and @ViewChild, promoting component communication and reusability.
* **Implemented both Template-driven and Reactive Forms** using FormControl, FormGroup, and FormBuilder, ensuring robust form management and validation.
* **Leveraged TypeScript features** such as arrow functions, spread syntax, and rest parameters to enhance code efficiency and readability.
* **Implemented routing and navigation** in the application by configuring **RouterModule** and utilizing **Child Routes, Route Guards** and **ActivatedRoute** to ensure secure and efficient navigation.
* **Developed customized, self-contained, reusable, and testable components, directives** and **services** enhancing the application’s modularity and maintainability.
* **Extensively Implemented Promises, RxJS Observables, Subjects, and Behavior Subjects** to efficiently manage asynchronous data and events, ensuring responsive and reactive application behavior.
* **Utilized rich UI components** from Angular Material, PrimeNG, and Bootstrap libraries to develop visually appealing and functional applications.
* **Extensive hands-on experience in creating and styling web components** using HTML and CSS, ensuring responsive and user-friendly designs.
* Leveraged Angular **HttpClient** to efficiently perform HTTP **GET** and **POST** requests, ensuring seamless data retrieval and submission.
* Developed and consumed **RESTful Web Services** on the server side using **NodeJS** and **Java,** ensuring robust and scalable backend solutions.
* Utilized **Jasmine** and **Karma** for comprehensive unit testing and authored end-to-end (E2E) test scripts using **Protractor**. Employed **Postman** for thorough API testing.
* **Used Bamboo for Continuous Delivery/Continuous Integration** to automate build and deployment processes, ensuring efficient and reliable application delivery. Employed **GIT** for version control and **Microsoft Visual Studio** as the Integrated Development Environment (IDE).
* Involved in Creating user stories in **JIRA/Azure DevOps**, providing accurate estimates as part of the **Agile** development process, contributing to effective sprint planning and execution.

**Valassis Communications, Livonia, MI Oct 2018 – May 2020**

**UI/Angular Developer**

Environment:

Angular2/4/5/6/7, PrimeNG, Bootstrap, RxJS, NgRx, NodeJS, Redux, HTML5, CSS3, SCSS, TypeScript, JavaScript, JSON, jQuery, AJAX, NPM, NVM, Bower, GIT, BitBucket, GitHub, Postman, MYSQL, ArcGIS Server, Esri Maps, Rally, Jenkins, Microsoft Visual Studio, Jasmine, Karma, Protractor, Chrome and Redux Dev Tools

Responsibilities:

* Responsible for the design and development of Interactive User Interface using **Angular5/6/7, RxJS library, Redux, NgRx, NodeJS, jQuery, PrimeNG and JSON.**
* Implemented new features in the application to align with business requirements by developing reusable components, services & directive.
* Involved in **design** and **architectural discussions** to come up with an efficient solution.
* Created customized, self-contained, reusable, and testable **Components, Directives and Services** to implement key functionalities in the application.
* Have hands-on experience working with **NgRx** Package concepts like **State, Store, Actions, Reducer, Effects and Dispatch** function**.**
* Extensively used **@Input** decorator, **@Output** decorator, **Event Emitters** and **@ViewChild** for data communication between Components in the application.
* Used **pipes** and **observables** extensively in the development of the application.
* Used **Typescript Concepts** like arrow functions, Spread Syntax and rest parameters in the development process.
* Extensively used **RxJS Observables, Subjects, Behavior Subjects and Promises** to handle asynchronous data and events.
* Developed Customized **tools, widgets and tasks** using **ArcGIS Server-Esri Maps**.
* Used Angular **HttpClient** to perform HTTP GET and POST requests.
* Implemented Angular **Promises** to handle asynchronous communication with Rest API for various requirements.
* Performed routing and navigation of application by configuring **Router module** and also usings child routes and route guards.
* Used rich UI Components from **PrimeNG** library and **Bootstrap** in the application Development.
* Developed and Consumed **RESTful Web Services** built on server side using NodeJS.
* Used **Jasmine** and **Karma** for Unit Testing and written E2E test scripts using **Protractor.**
* Used Continuous Delivery/Continuous Integration tool **Jenkins** for automated builds and deployments for the application, used **GIT** for version control and **Microsoft Visual Studio Code** IDE.
* Involved in Creating user stories in **Rally** for sprint planning and providing accurate estimates as part of the **Agile-Scrum** development process, contributing to effective sprint planning and execution.

**Comerica Bank, Auburn Hills, MI Mar 2017 – Sep 2018**

**Front End Developer**

Environment:

Angular2/4, NodeJS, ReactJS, d3.js, Vue.js, Bootstrap, Bower, SQL, HTML5, CSS3, TypeScript, JavaScript, JSON, jQuery, AJAX, GIT, Jasmine, Karma, Protractor, Agile Methodology

Responsibilities:

* Responsible for design and development of Interactive User Interface applications using **HTML5, CSS3, Angular2/4, NodeJS, jQuery, AJAX and JSON.**
* Used **Angular2/4**as the development framework to build **Single-Page Applications (SPA).**
* **Architected the application into modular components,** enhancing maintainability and scalability by organizing code into distinct, manageable modules.
* Extensively used **TypeScript** and **JavaScript** to make the web pages more and more interactive.
* Developed many **Modules, Components, Services & Directives** andconsumed **backend Microservices** through HTTP requestsin Angular2/4.
* Designed and developed **microservices** in the backendthat can be reused.
* Developed static web content using front-end technologies **like Angular2/4, CSS3 and HTML5** by coordinating with User Experience Architects.
* Performed **Validations** at Client-side using **Angular Directives** and implemented **media queries.**
* Used **jQuery,** to perform **form validations, data traversing, data manipulation, AJAX implementation, creation of Widgets etc.,**
* Used **JIRA** on a daily basis to check the user stories, bugs assigned to me and update their status when the bug fix/development is ready.
* Worked with back-end technologies like **NodeJS** and databases like **MySQL** and **MongoDB.**
* Experience with modules like **Socket.io, Multer, clustering, JADE, Cookies, Mongoose and ORM** applications in **Node.js**.
* Developed and Consumed **RESTful Web Services** built on server side using NodeJS.
* Used **Node JS** as a proxy layer for accessing the API layer.
* Maintained login sessions using **Express-Node JS.**
* Used **Node JS** to install project dependencies & maintain them.
* Added customizations in **Node.js** to configure different webservices.
* Coordinated with QA for the **testing, Application deployment and integration.**
* Performed **the cross-browser compatibility check** for browsers like **Firefox, Google Chrome, Opera and Safari** by using browser hacks and requirements.
* Performed Unit testing using **Jasmine** and written E2E test scripts using **Protractor.**
* Utilized **GIT** version control tool to save and share the code with other team members.
* In accordance with the requirements, worked on User Interface web development in **Agile** **SCRUM** methodology.

**American Express, Salt Lake City, UT Aug 2016 – Feb 2017**

**UI/React Developer**

Environment:

HTML5, CSS3, JavaScript, ReactJS, Redux, React Native, NodeJS, jQuery, Vue.js, d3.js, Underscore.js, JSON, AJAX, Bootstrap, SASS, Rest API, GIT, Jest, Protractor, WebStorm, MongoDB, MySQL

Responsibilities:

* Responsible for the design, development and testing of the web application using **HTML5, CSS3, JavaScript, jQuery, ReactJS, React Native and Bootstrap.**
* Responsible for the development of User Interface of **Single Page Applications** using **ReactJS**.
* Used **Node JS** as a proxy layer for accessing the API layer and **Express-Node JS** for maintaining sessions.
* Designed many **CSS templates** to be used in webpages using CSS features like background, positioning, text, border, padding, margin, table etc.,
* Extensively used **JavaScript, jQuery** to perform the user interactions in web pages.
* Developed and implemented RESTful APIs, handling HTTP methods such as **POST, PUT, GET and DELETE** to facilitate CRUD operations.
* Familiar with creating custom reusable **React Component Library**.
* Designed **React Native** components and higher order components. Also designed UI views with **Flexbox** and **React Native** **Dimensions API.**
* Developed **Isomorphic website** which can be served to desktop, tablets and mobile users using **ReactJS.**
* Implemented responsive designs and client-side Interfaces using **ReactJS.**
* Created many UI web pages using **Components, Forms, Router, Animations, Events, Keys and Flux** concepts of **ReactJS**.
* Used **Middleware Services and Redux-Promise,** to handle data retrieval and manage asynchronous **RESTful** service interactions.
* To improve the User Experience, implemented Optimization techniques to reduce the **page size and load times**.
* Handled and evaluated **JSON objects** from the server. Made **AJAX Requests.**
* Experience with modules like **Socket.io, Multer, clustering, JADE, Cookies, Mongoose and ORM** applications in **Node.js**
* Used **Node JS** to install project dependencies & maintain them.
* Added customizations in **Node.js** to configure different webservices.
* Developed and consumed **RESTful Web Services** built on server side using NodeJS.
* With the coordination of back-end team, worked on **optimizing** the API calls to increase efficiency by **deprecating the unnecessary API calls**.
* Have knowledge in working with AWS for fetching pictures and videos to User Interface from AWS.
* Performed Unit testing using **Jest** and written E2E test scripts using **Protractor.**
* Used debugging tools like **Firebug** to check for bugs and fix it.

**Lince Soft Solutions, Hyderabad, India May 2014 – Dec 2015**

**UI Developer**

Environment:

HTML5, CSS3, JavaScript, AngularJS, Ember.js, BackboneJS, jQuery, AJAX, JSON, Bootstrap, AngularJS, Dreamweaver, Windows, Agile Methodology.

**Responsibilities:**

* Developed **HTML and CSS** templates.
* Responsible for the design, development and implementation of front-end applications.
* Developed UI applications using technologies like **HTML and CSS** as per W3C standards.
* Created the layouts of each portal using **Cascading Style Sheets**.
* Extensively used **jQuery plugins and JavaScript** to make the user interface more interactive.
* Involved in the development of complex, interactive and attractive web interface applications with good speed.
* Implemented functionalities like Auto Complete by using **AJAX, JSON, DHTML and jQuery**.
* For the audio and video playbacks used **HTML5.**
* Used technologies like **JSON, jQuery and AJAX** for requesting data and response processing.
* Involved in the enhancement of the existing web applications with the help of **AngularJS.**
* Implemented back-end application server using **NodeJS.**
* Involved in the **maintenance** of the websites which includes updating webpages by adding or removing content from it.
* Involved in developing dynamic e-mails using **JavaScript, HTML5, XHTML and CSS3.**
* Experience in **DOM** manipulation using **JavaScript, jQuery and AngularJS**.
* Developed **Form Validations** using **AngularJS.**
* Hand on experience in trouble shooting issues with layouts like **div.**
* Good coordination in project activities and documented all phases of the project properly.
* Took part in all the stages of the enhancement process in the application like gathering requirements, analysis, development and testing.
* Involved in the development of logic-based code for the registration process and validation of the customer who want to enroll.
* Used **JavaScript** for client-side validations.
* Responsible for the development of web-based user interfaces both at client and server-side using **HTML, XML, JSP and Servlets**.
* Involved in the front-end Integration with Oracle databases using JDBC API through **JDBC-ODBC** Bridge driver at server side.
* Developed many **SQL queries** to interact with database**.**