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**UI Developer**

**Samanth Chaganti**

**PROFESSIONAL SUMMARY:**

* Around 10 years of extensive experience in Software SDLC, Web Application Design, Development, Programming, Testing, Support Maintenance and End-User support.
* Proficient in developing User Interface (UI) for Web Applications by using **HTML5, CSS3, Java script (ES6), Typescript, Angular7/8/12/14/17,** Web APIs, Bootstrap, AJAX, j Query, JSON, Node.js and Vue.js Programming.
* Good experience in creating Responsive Web Design (RWD) using Bootstrap and CSS Media Queries. Worked with Angular Bootstrap Controls for better interface design.
* Experience in using CSS preprocessors SASS and LESS framework to create dynamic style sheets, minimize complexity and avoid duplication in CSS styles.
* Experienced in migrating applications from older versions of frameworks (e.g., Vue 2 to Vue 3, AngularJS to Angular) while ensuring backward compatibility.
* Well-versed in Object Oriented Programming (OOP) with JavaScript along with Design patterns including Prototypes, Closures and Object-Oriented Design/Development (OOD) and Model View Control (MVC) design pattern.
* **Expert in Module Federation to develop Micro Front End applications in UI.**
* Experience in AWS services like EC2, EBS, ELB, S3, SQS, RDS, DynamoDB, Lambda, API Gateway, CloudWatch, CloudFormation and Elastic Beanstalk.
* Good understanding of Angular application architecture with Components, Services @Injectable, Observables, Pipes, Routes and Router Module to build Single Page Applications (SPA).
* Experience with defining and deploying AWS infrastructure resources such as EC2 instances, RDS databases, and S3 buckets using AWS CDK.
* Extensive experience working with Angular’s NGRX state management (@ngrx/store-devtools, @ngrx/router-store, @ngrx/entity, @ngrx/effects @ngrx/data, @ngrx/schematics).
* Experience working in a fast-paced environment using Agile/Scrum, Test driven development and Waterfall methodologies.
* Experienced with Angular Templates, Promises, Scopes, Data Binding, Controllers, Directives, Dependency Injection, Animations, Forms, AOT, Lazy Loading, RxJS.
* Experienced in using NPM module bower for managing UI dependency / Good experience working with High Traffic Websites. Used Node Package Manager (NPM) to manage modules & used it to install useful tools such as Grunt, and Express.
* Practiced Test-Driven Development (TDD) and Behavior-Driven Development (BDD) methodologies.
* Wrote unit tests before implementing the actual code to ensure testability and maintainability.
* Proficient in using Git for version control and collaboration on Angular projects, including branching, merging, and resolving conflicts.
* Strong experience with the relational databases like Oracle Database, MySQL and non-relational database MongoDB, AWS Dynamo DB and migrations from SQL relational databases to NoSQL databases like MongoDB, Cassandra.
* Experienced in Unit Testing and End-to-End testing using Jasmine, Karma also has a good understanding on Protractor.
* Automating Angular JS applications by using Protractor, Jasmine and Karma using Java script.
* Experienced in building applications using the MEAN stack: Mongo DB, Angular, Express.js and Node.js.
* Used JIRA to track the issues and bugs related to software or Application. Used CI/CD, Jenkins as part of the daily automation build.
* Experienced in software version control tools like GitHub and debugging and troubleshooting existing code.

**Professional Experience:**

**Client: UHG, MN May 2023 – Till Date**

**Role: Senior UI Developer**

**Responsibilities**:

* Developed large scale Responsive Web Application using HTML5, CSS3, JavaScript (ES6), Typescript, and Angular 17.
* Developed standalone components using the new @angular/core package in Angular 17. Actively involved with creating Single Page Application (SPA) using Angular with routing technique using ‘@angular/router’ with a modular system which supports Lazy Loading to reduce startup time.
* Designed and implemented SPAs using Vue.js, optimizing page load times and improving SEO by utilizing Vue Router for client-side routing.
* Successfully upgraded existing Angular applications from previous versions to Angular 17.
* Developed and maintained server-side applications using Node.js and Express.js for building RESTful APIs and handling server-side logic.
* Utilized Rx JS operators like map, filter, merge, and switch Map for data transformations and composition.
* Designed and implemented component-level styles using CSS or CSS preprocessors like SCSS or Less.
* Developed responsive and highly interactive user interfaces using Vue.js, leveraging its virtual DOM, reactive data binding, and component-based architecture.
* Developed modern and performant user interfaces using Vue 3, leveraging its improved reactivity system and composition API. Leveraged CSS selectors and combinators to target specific elements within components.
* Integrated Node.js backends with Angular applications, enabling seamless communication and data exchange through HTTP requests.
* Designed and implemented scalable cloud storage solutions using Amazon S3 for storing, managing, and serving large volumes of data, files, and objects in web applications.
* Designed, configured, and deployed Amazon Web Services (AWS) for a multitude of applications utilizing the AWS stack (Including EC2, and S3), focusing on high availability, fault tolerance, and auto-scaling.
* Managed project dependencies, third-party libraries, and package installations using NPM (Node Package Manager) for Angular applications.
* Developed reusable Mixins, and functions in Less/Sass to abstract common styles and logic, promoting code consistency and DRY principles.
* Developed code to exchange data between one component to other across different modules using Angular 14 framework.
* Enhanced legacy application by building new components in Angular 14 and Typescript.
* Deployed Node.js applications to AWS using infrastructure as code tools like AWS CloudFormation or AWS CDK.
* Implemented advanced Vue.js features like slots, mixins, filters, and custom directives to extend functionality and promote code reuse.
* Configured Track JS to track specific error types, custom error data, and user interactions.
* Implemented filtering, sorting and pagination using third party tools and Angular 14 framework.
* Configured S3 buckets, access control policies, versioning, lifecycle rules, and encryption options for data security, compliance, and disaster recovery.
* Implemented state management in Angular using NgRx and API gateway for all the outgoing RESTful calls from Angular to spring boot in NestJS.
* Utilized most of the AWS services like S3 as a data store for storing the files in Dynamo DB.
* Implemented authentication and authorization mechanisms in Angular applications using the oidc-client library.
* Utilized Node.js for task automation, build processes, and development workflows within Angular projects, leveraging tools like NPM scripts and Webpack.
* Implemented state management solutions using Vue.js ecosystem tools like Vuex, enabling centralized data management and facilitating code reusability.
* Leveraged partials and modular architecture in Less/Sass to improve stylesheet scalability and maintainability across large-scale Angular applications.
* Utilized the Vue 3 script setup syntax for a more streamlined and efficient development experience.
* Integrated RxJS Observables and NgRx (Angular's Redux-inspired state management library) for managing application state, side effects, and data flow in Angular applications.
* Tracked and analyzed performance metrics such as page load times, script execution times, and network requests using Track JS.
* Implemented actions, reducers, selectors, and effects using NgRx store, actions, and effects libraries with RxJS Observables for unidirectional data flow and state immutability.
* Configured AWS CloudWatch to monitor Node.js applications and analyze logs for troubleshooting. Used AWS Lambda to manage the servers and run the code in the AWS. Implemented AWS CloudWatch to monitor EC2 instances and RDS databases.
* Integrated Vue Router for client-side routing, enabling seamless navigation and handling URL mapping within single-page applications (SPAs).
* Configured Swagger-UI registered Microservice with Eureka to monitor services from Spring Boot console.
* Published and maintained reusable Angular libraries, components, or utilities as NPM packages for internal or external consumption.
* Used Dynatrace to monitor application performance.
* Leveraged the new features and improvements introduced in Angular 17. Utilized the enhanced TypeScript support in Angular 17, including improved type-checking and error reporting
* Configured various routes, directives for grid, pagination, conditional validations, templating, dynamic loading, lazy loading, Shadow DOM, NgRx store.
* Used the AWS SDK for Java to perform CRUD (Create, Read, Update, Delete) operations on DynamoDB tables.
* Utilized EC2 instances as virtual servers to host Git, Jenkins, and configuration management tools such as Ansible. Transformed sluggish and yearly processes into dynamic API-generated procedures.
* Implemented CSS-in-JS methodologies, such as styled-components, to enhance component styling and maintainability, resulting in a more modular and scalable codebase.
* Ensured mobile responsiveness and optimized user interfaces for various devices, delivering a consistent and user-friendly experience across desktop and mobile platforms.
* Developed Angular applications adhering to W3C standards and recommendations. Ensured compliance with HTML, CSS, and JavaScript specifications set by the W3C.
* Deployed the UI application into CI environment using Jenkins to integrate and development testing.
* Analysing the business requirements and preparing conceptual designs and wireframes using Figma.
* Wrote unit tests and end-to-end tests for Angular components and services using Jasmine and Karma.
* Performed testing using Jasmine, Karma and Protractor by following Test Driven Development (TTD) approach.
* Enhanced legacy application by building new components with lazy loading in Angular using Ivy rendering and typescript.
* Contributed to Git repositories by creating pull requests, reviewing code changes, and adhering to established Git workflows and best practices.

**Client: Nextiva, GA** **Dec 2021 - Apr 2023 Role: UI Developer Responsibilities:**

* Developed application using frontend technologies such as HTML 5, CSS 3 and Angular 14.
* Hands-on experience with Ivy improvements in Angular 12, optimizing performance and reducing bundle sizes.
* Designed and developed robust Single Page Applications (SPAs) using Angular framework, leveraging its routing, state management, and modular architecture.
* Developed responsive user interfaces using CSS media queries and responsive design principles.
* Created Angular 14 components, implemented Interpolation, Input Variables, Bootstrapping, NgFor, Nglf, Router Outlet, event binding, and decorators. Optimized the performance of application using Angular13 Lazy Loading and Ahead of Time Compilation.
* Updated the application with new features of Angular 14.
* Worked with ECMA Script 6 features. For build of JSX and webpack.ES2015(ES6) used Babel, webpack.
* Monitored and analyzed error reports in the Track JS dashboard, identifying and prioritizing critical issues.
* Developed restful Web service using Spring Boot and deployed to pivotal web services.
* Implemented Services by using Http Client Module for making the API calls and injecting data into the required components.
* Experience in Angular 14 Templates, directives, Routing and navigation, Components, Services and Data Binding.
* Designed and developed the application using Angular 13. x framework along with HTML5, CSS3, Typescript, JavaScript, Bootstrap, Node.js, and NPM.
* Developed and integrated reusable Vue components, promoting modular and maintainable code through component-driven development.
* Implemented theming and custom styling in Angular applications using Less/Sass variables and mixins, ensuring consistent branding and visual identity.
* Utilized Angular CLI and Angular Material for efficient development and consistent UI design in Angular 12 projects.
* Contributed to the development and maintenance of Node.js microservices, facilitating scalability and modular architecture within Angular applications.
* Integrated AWS CDK with AWS services like Amazon S3, DynamoDB, RDS, and SQS to provision and manage cloud resources using Java code.
* Implemented NgRx store to maintain the state of the application. NgRx store was used to store results after angular injector observable retrieved the data from backend.
* Optimized Vue.js applications for performance, leveraging techniques like code splitting, lazy loading, and efficient component rendering.
* Developed and maintained full stack applications using TypeScript and Node.js for backend services, leveraging Express.js and NestJS frameworks to build scalable and efficient RESTful APIs.
* Worked on associated REST tools such as Swagger, Postman and SOAP UI testing HTTP Requests and response.
* Configured and optimized NPM scripts for automating build processes, running tests, and executing development tasks within Angular projects.
* Integrated SQS with AWS Lambda functions or EC2 instances to process messages from SQS queues and trigger downstream actions.
* Identified performance bottlenecks and implemented optimizations based on Track JS data.
* Implemented lazy loading in Angular 12 applications to improve initial load times and enhance user experience.
* Utilized Angular Material components such as buttons, cards, forms, dialogs, menus, and data tables for building consistent and visually appealing user interfaces.
* Performed AWS cloud deployments for web applications with monitoring using CloudWatch and VPC to manage network configurations.
* Integrated Step Functions with AWS Lambda functions and other AWS services to create resilient and fault-tolerant workflows.
* Migrated existing Vue 2 applications to Vue 3, taking advantage of the new features and performance improvements while ensuring backward compatibility. Created engaging user experiences with CSS animations and transitions.
* Developed and maintained Vue.js design systems and component libraries, promoting consistent UI/UX across multiple projects and teams.
* Optimized CSS output and minimized file sizes by utilizing Less/Sass features like nesting, parent selectors, and compression.
* Implemented State management in Angular using NgRx and API gateway for all the outgoing RESTful calls from Angular to Spring Boot.
* Involved in development of micro-services architecture using Spring Boot, REST API's and documented the whole set of micro-services using Swagger framework.
* Integrated RxJS with Angular's HttpClient for handling HTTP requests and responses.
* Implemented server-side rendering (SSR) using Vue.js and Node.js, enabling improved SEO and initial render performance for web applications.
* Worked on implementing CI/CD pipelines using AWS Code Pipeline and AWS CDK to automate the deployment of infrastructure changes.
* Used the Jenkins & Jenkins2 tools for Continuous integration (CI) and continuous deployment (CD).
* Implemented accessibility best practices in Vue.js applications, ensuring compliance with web accessibility standards (WCAG).
* Used Node Package Manager (NPM) to import and applications.
* Worked with task runners like Gulp in deploying and testing the application.
* Conducted performance optimization and load testing for Node.js servers, ensuring efficient handling of concurrent requests and high traffic loads.
* Configured Angular 12 projects with TypeScript 4.2 support and experimental Webpack 5 integration for enhanced development workflows.
* Utilized the Angular Testing Framework, Jasmine and Karma for writing and running unit tests.
* Worked on TDD (Test Driven Development) that requires specific test cases and improving the Software by passing new tests.
* Implemented accessible user interfaces following the Web Content Accessibility Guidelines (WCAG) set by the W3C.
* Implemented continuous integration and deployment (CI/CD) pipelines using Git hooks and integrations with tools like GitHub Actions or Jenkins.
* Stayed updated with industry trends and best practices in UI/UX design through Figma's community, tutorials, and resources.

**Client: GAP-** **San Francisco, CA May 2020 - Nov 2021**

**Role: UI developer**

**Responsibilities:**

* Designing and developing solutions for Web-based applications using JavaScript, HTML5, CSS3, Bootstrap, SQL server. Experienced in designing and developing Single Page Application (SPA) using React JS and site responsive supporting 4 viewports like mobile, tab, laptop, and other systems.
* Efficient in building applications using React JS, that helps in rendering pages on both the client and server using the same codebase. Built components/modules with reusable utility methods.
* Used JavaScript and XML to update the web page, lowering bandwidth usage and load time.
* Contributed to development of user interface, design, and front-end programming for a web application that complies with the given specifications by the client.
* Integrated Redux for state management in React, ensuring efficient data flow and a centralized store.
* Worked with React Hooks, introduced in React, to write functional components and leverage use State, use Effect, use Context, and other hooks for state management and side-effects.
* Used React-Routers for connecting the APIs which enforce the communication to the server while also implementing mock services in Node.js with the help of modules using Express.js.
* Incorporated accessible components and websites, adhering to WCAG guidelines, to make web applications inclusive and user-friendly for individuals with disabilities.
* Validated HTTP requests and responses of REST APIs using Swagger.
* Utilized SASS preprocessors to extend CSS with variables, operators, interpolations, functions, mixins and many more other usable assets.
* Developed front-end applications using React, Dependency injection, and Http modules with a Node JS server for future evolutions.
* Implemented the usage of Node.js and NPM, especially for Node build processes like GULP.
* Ensured cross-browser compatibility by following W3C standards and best practices.
* Used Native and UI routers to implement Single Page Application.
* Worked on Test-driven development, Behavior driven development and Acceptance Test Driven Development.
* Extensively used Git for version controlling and regularly pushed the code to GitHub.
* Worked in Agile methodology for the software development and Scrum process attending daily stand up and completing tasks in sprints.

**AgFirst Farm Credit Bank, Columbia, SC Nov 2018 – Apr 2020**

**Angular/UI Developer**

**Responsibilities:**

* Created a rich and advanced user interface using HTML5, CSS3, Bootstrap, JavaScript, Angular JS and j Query.
* Application classes are developed by Core Java 8 concepts like Lambdas, Streams, parallel Streams, and Functional Interfaces.
* Developed Business objects using POJOs and data access layer using Hibernate framework.
* Extensively Implemented Spring Boot, dependency Injection (DI) and AOP. Used Spring Core Annotations for Spring DI and Spring MVC for REST API's and Spring Boot for Micro services.
* Designed and implemented web pages using Angular JS Forms, Validations, Modules, Expressions, Directives, Controllers and Filters.
* Implemented User Interface and integrated with backend code, Node.js as server-side technology.
* Implemented code according to coding standards and created Angular JS Controller, which isolate scopes perform operations.
* Worked with different Angular JS core directives to implement two-way data binding and render data coming from Server.
* Utilized the Angular Testing Framework (including Jasmine and Karma) for running unit testing.
* Worked with CSS media query, Bootstrap to create responsive applications.
* Committed code change into repository by using version control tool Git.
* Worked in Agile methodology for the software development and Scrum process attending daily stand up and completing tasks (User Stories) in sprints.

**ADP / CDK Global, Telangana, India Aug 2014 – Aug 2018**

**UI Developer**

**Responsibilities:**

* Created a rich and advanced user interface using HTML5, CSS3, Bootstrap, JavaScript, Angular JS and j Query.
* Used front end web development tools HTML5, CSS3, JavaScript, Bootstrap, Angular JS to design UI.
* Used different Angular1.5 built in services for all data access, encapsulating URLs and Standardizing data Access interfaces.
* Experienced in ensuring interoperability between Micro Frontend modules, enabling seamless communication and integration between different parts of the application while maintaining isolation and independence.

**Education:** Bachelors in Electrical, Electronics and Communications Engineering, JNTUH, 2013.