Ramukumar Tatiparthi

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Professional Summary

With around **6 years of experience** in frontend development, I specialize in building **scalable**, **responsive**, and **user-focused** web and mobile applications across both **enterprise** and **startup** environments. My work at **Dell** involved **optimizing internal platforms** for operational efficiency and enhancing **data visualization tools** for enterprise users, while at **Boston Scientific**, I contributed to tools supporting medical professionals by improving **system usability** and **reliability**. I've built **AI-powered interfaces**, designed **payment-integrated solutions**, and developed full-scale applications using **React.js**, **Angular**, **Redux**, **Tailwind CSS**, and **Next.js**—always focused on **clean design** and **seamless functionality**. I'm also experienced in **micro frontend architecture**, **CI/CD pipelines**, and **cloud-based deployments** on **AWS** and **GCP**.

Beyond technical expertise, I thrive in **cross-functional collaboration** and **Agile environments**, with a strong grasp of **UX principles**, **design systems**, **API integration**, and **cloud monitoring tools** like **CloudWatch** and **OpenSearch**. Outside of work, I founded **SkillMentor**, a platform that supports **interview preparation** and **career growth** through personalized resources and guidance. I'm deeply passionate about **mentorship**, regularly participating in **local tech meetups** and volunteering to support **aspiring developers**. Whether contributing to **complex enterprise systems** or launching **new startup features**, I bring a balanced blend of **product thinking**, **frontend architecture**, and **user empathy** to everything I build.

Technical Skills

- **Programming Languages**: JavaScript, TypeScript, HTML5, CSS3, SQL, NoSQL, JSON,   ,
- **Web Technologies:** HTML5, CSS3, JavaScript, TypeScript, jQuery, JSON, Ajax, Angular (AngularJS, Angular 12+), NodeJS, React.js, Redux, Bootstrap, Tailwind CSS, Material UI,Flutter
- **Frameworks/Libraries**: React.js, Angular CLI, Next.js, Express.js (Node), Redux Toolkit, Chart.js,
- **Database Technologies:** Firebase, MongoDB (via REST/GraphQL APIs)
- **Tools/IDEs**: Visual Studio Code, Postman, Chrome DevTools, Figma, Adobe XD
- **API & Web Services:** RESTful APIs, GraphQL, Swagger, Postman, WebSockets, Server Sent Events
- **CI/CD & Development Tools:** npm, yarn, Git, GitHub, Bitbucket, Jenkins, Webpack, Babel
- **Design Patterns**: Component-based Architecture, Container-Presenter Pattern, Observer (in JS apps)
- **Logging & Monitoring**: Google Analytics, Sentry, AWS CloudWatch
- **Operating Systems:** Windows, Linux, Unix
- **API Documentation**: Swagger , Postman
- **Development Methodologies:** Agile, Scrum, Kanban, Component-Driven Development (CDD), CI/CD for Frontend

Work Experience

AT&T   Jun 2024 – Present
SDE 2 - Senior Frontend Developer

Responsibilities:

- Led the development of **modular UI Engine** using **React.js** and **Webpack Module Federation** to centralize and expose shared components across applications, reducing duplicate code and enabling faster feature development.
- **Built high-performance React applications using Vite.js**, leveraging its fast bundling and hot module replacement (HMR) for a significantly improved development experience and faster production builds.
- Collaborated closely with **UX designers** and backend engineers to build scalable, reusable components, reducing development turnaround time by 35% for new product features.
- Integrated APIs and dynamic content rendering with **TypeScript** and Axios, ensuring seamless data flow and consistent performance under high user traffic.
- Played a key role in **modernizing legacy UI components** to align with AT&T's design system, improving customer interaction metrics and user satisfaction scores.
- Developed **highly reusable and scalable UI components** with **React, TypeScript, and SCSS**, following atomic design principles and accessibility standards (WCAG).
- Implemented **micro-frontend architecture** that supported independent deployment of UI modules, improving maintainability and release autonomy across teams.
- Applied advanced **JavaScript and TypeScript patterns** (Hooks, Context API, custom HOCs) to build clean, efficient, and testable components.
- Integrated **RESTful and GraphQL APIs** for dynamic data rendering, ensuring responsiveness and seamless user experiences across devices.
- Optimized frontend performance through **code splitting, lazy loading, memoization**, and **tree-shaking**, resulting in faster load times and improved Lighthouse scores.
- Collaborated closely with design teams to convert Figma mockups into **pixel-perfect, cross-browser compatible UIs**, ensuring consistency and UX excellence.
- Used **Jest, Cypress, and React Testing Library** to create unit and integration tests for components, maintaining high test coverage in production code.
- Contributed to CI/CD pipelines using **GitHub Actions** for build, linting, testing, and deployment workflows.
- Participated in Agile development cycles, owning features from design to deployment and continuously iterating based on feedback.
- Contributed to frontend documentation, architecture decisions, and technical discussions to ensure sustainable and maintainable codebases.
- Led the **code review** process to ensure best practices and high-quality code.
- Managed and maintained version control using **Git** and **GitHub** for team collaboration and source code management.
- Mentored junior developers, fostering a collaborative and knowledge-sharing environment to build team expertise.

Responsibilities:

- Built **scalable and reusable frontend components** using **Angular and React.js**, implementing **custom directives, pipes, and services (Angular)** and **custom hooks (React)** to enhance functionality and code reusability across projects.
- Designed and styled responsive UIs using **Tailwind CSS** and **Material UI (MUI)**, combining utility-first and component-based design approaches to deliver consistent Interfaces.
- Developed **responsive UIs with Angular Material and React Hooks**, enabling dynamic form generation and interactive data tables optimized for both desktop and mobile interfaces.
- Design and implement RESTful APIs and GraphQL endpoints, making data retrieval 40% faster and enhancing overall application efficiency.
- Lead a team of 5 developers in an Agile environment, collaborating through Jira, GitHub, and CI/CD pipelines (Jenkins, GitHub Actions) to streamline workflows and speed up deployments by 25%.
- Integrate AWS services (EC2, S3, Lambda, RDS, API Gateway) to enhance cloud infrastructure, seamless scalability.
- Write and execute unit and end-to-end tests using Jest, Mocha, Cypress, and React Testing Library, increasing test coverage by 35% and improving reliability.
- Implement secure authentication and authorization using JWT, OAuth, and AWS Cognito, strengthening security and reduced unauthorized access .
- Engineered **cross-platform mobile applications using Flutter**, delivering native performance on Android and iOS with advanced UI/UX features and third-party library integrations.
- Integrated **RESTful APIs and third-party services** using **TypeScript**, handling complex data flows, error handling, and asynchronous communication across frontend modules.
- Implemented **state management solutions** using **Redux (React)** and **RxJS (Angular)** to maintain consistency, streamline data handling, and optimize rendering performance.
- Created and maintained **component libraries** in both React and Angular, promoting consistency and accelerating development across multiple frontend teams and projects.
- Used **React Query** and **Axios** for efficient server state management, including built-in caching, request deduplication, pagination, and background updates.
- Applied advanced techniques like **React Suspense** , **lazy loading, dynamic rendering, and modular architecture**, ensuring performance optimization and enhanced maintainability in large-scale applications.
- Worked with **Flutter plugins** and **platform channels** to access native device features, build interactive UI layouts, and ensure a smooth user experience across devices.
- Collaborated with developers to establish **clean API integrations**, including structured request/ response handling, custom interceptors, and client-side caching strategies.
- **Mentored junior developers**, providing guidance on best practices in component design, TypeScript usage, and cross-framework development across React, Angular, and Flutter stacks.
- Integrated **Google Analytics** to track user behavior and engagement across web and mobile platforms, enabling data-driven improvements to UI/UX and feature prioritization.

Boston Scientific   *Jan 2019 – Dec 2020*
UI Developer

Responsibilities:

- Contributed to the development of modern web applications using React, Angular, and Next.js, applying framework-specific patterns to build clean, maintainable codebases.
- Designed and developed Web pages using HTML5, CSS3, JavaScript, AngularJS including Ajax controls and XML.
- Implemented HTML5 feature like semantics, local storage, data and required attributes and sliders.
- Responsible to manipulate HTML5, CSS3 in jQuery as well as making the pages dynamic using AJAX, JSON and XML.
- Designed dynamic and multi-browser compatible pages using HTML5, CSS3, SASS, Bootstrap, JQuery, Angular JS, AJAX and JavaScript.
- Involved in Building web pages from wireframes to meet w3c standards.
- Extensive knowledge in developing applications in a Single page applications (SPAs) using various JavaScript frameworks like Angular JS, Node JS.
- Involved in developing XML, HTML, Angular 2.0 and AJAX for client-side presentation and data validation on the client side with in the forms.
- Worked on Angular 2.0 by consuming RESTful web services and used Angular 2.0 forms like Template Driven forms and Modern Driven (Reactive) forms to perform form validations both on server and client side.
- Working closely with QA team for fixing QA bugs as well as production issues.
- Created custom React Hooks and Angular services/directives/pipes to encapsulate reusable logic, improving code reusability and reducing duplication across components.
- Implemented client-side and server-side routing using React Router, Angular Router, and Next.js's file-based routing, handling dynamic parameters and route guards effectively.
- Utilized Next.js features such as static site generation (SSG) and server-side rendering (SSR) to enhance performance and SEO for user-centric pages.
- Styled applications using Tailwind CSS, Angular Material, and Material UI, building accessible, responsive, and consistent user interfaces across different screen sizes.
- Managed state and side effects using Redux Toolkit, React Context, and RxJS, ensuring seamless data flow, efficient updates, and improved UI responsiveness.
- Employed tools like Vite.js, Angular CLI, and Next.js CLI for optimized development workflows, environment-based builds, and modular project scaling.

Education

Masters in Computer Science   *Texas Tech University*
Lubbock, TX