Parvathy Nandakumar

Front-End Developer - React/Next.js

✉ 4873 Rue Vezina, Montreal, QC ✉ nandakumarparvathy97@gmail.com ☐ +1 (438) 979-9203 ▥
https://www.linkedin.com/in/parvathy-nandakumar-747847231/
☁ https://parvathynandan.github.io/portfolio/

PROFESSIONAL SUMMARY

- A seasoned Front End Developer with nearly 5 years of expertise, showcasing a solid track record in front-end development, particularly adept in **React, Next.js, Redux, Angular, TypeScript, JavaScript, NodeJS, HTML5,** and **CSS3**.
- Passionate about revolutionizing development practices to deliver exceptional user experiences consistently

    My expertise includes:
- Skilled in developing meticulously formatted and logically organized **HTML, CSS, TypeScript**, and **JavaScript** (**ES6+**), consistently aligning with industry-standard best practices and coding conventions. Proficient in using **ESLint** to enforce code quality, maintain consistency, and identify potential issues early in the development process.
- Hands-on experience and strong understanding of **React** concepts like JSX, virtual DOM, and component lifecycle.
- Hands-on-Experience in **React Redux, React Router**, **React Hooks, React Hook Forms**, **React Lifecycle** and **Context API.**
- Performed **unit testing** and **integration testing** utilizing testing libraries such as Jest, Jasmine, Vitest and React Testing Library to uphold code quality and reliability standards and troubleshooting front-end code issues.
- Skilled in designing and architecting **Angular** applications with a strong emphasis on component-based structure and organization.
- Proficient in developing REST APIs using **Node.js, Express**.
- Experienced in using **GitHub Actions** and **Docker** to implement **CI/CD** pipelines, enabling rapid development cycles.
- Experienced in using **Storybook** for developing, testing, and documenting isolated UI components, ensuring consistency and reusability across projects
- Proficient in responsive design, cross-browser compatibility, web performance optimization, and accessibility standards (WCAG, ARIA).
- Strong understanding of **UI/UX** principles.
- Capable of designing and integrating web services and APIs using SOAP and RESTful methods into **React** and **Angular** applications for data retrieval.
- Familiar with **React hooks** like useState, useEffect, and useContext for better code organization and reuse.
- Skilled in implementing client-side routing with **React Router** for single-page applications.
- Effectively integrated a sophisticated **Redux** state management solution within a sizable project, ensuring seamless functionality and enhanced scalability.
- Proficient in writing schemas using **Zod** for data validation and ensuring type safety in TypeScript applications.
- Proficient in making asynchronous requests using technologies like **Axios** or the **fetch API**.
- Advanced proficiency in using CSS frameworks like **TailwindCSS** for styling and creating responsive Web designs and CSS preprocessors like LESS, SASS and SCSS and component libraries like Catalyst UI.
- Followed Responsive Design Principles to create websites using **Mobile-first approach, Media queries, Flex concept, and Fluid Grids.**
- Proficient in configuring **Webpack and Babel with TypeScript** for bundling and transpiling React applications.
- Proficient in troubleshooting and debugging issues in applications, utilizing browser developer tools.
- Competent in creating, managing, and prioritizing issues, tasks, and user stories within **Jira**.
- Adept at **Agile Methodologies, SDLC and BDD** for effective teamwork and project management.
- Strong knowledge of **TypeScript** features, such as strong typing, interfaces, decorators etc.
- Proficient in utilizing **npm** for managing project dependencies, package installation, and version control, ensuring seamless integration of external libraries and modules.
- Efficient in harnessing the capabilities of IDEs like **Visual Studio Code** to create, edit, and maintain Angular components, services, and modules.
- Experience with **GIT, JIRA**, and well-versed in Agile/Scrum methodologies.
- Adept **problem-solving abilities** and proactive in identifying and mitigating web application vulnerabilities.

EDUCATION

Bachelor of Technology in Computer Science and Engineering

2019 - **Kerala Technological University, India**

CERTIFICATIONS

Pursuing AWS Cloud Practitioner Certification
Node.js API Masterclass With Express & MongoDB

EXPERIENCE

MPAC - Canada
Systems Developer   **May 2024 - Pre**

- Transformed detailed design mockups into functional, responsive React components, adhering to best practices and design guidelines.
- Developed a new Next.js application by converting an existing application, optimizing performance, improving maintainability, and leveraging modern React features.
- Worked with forms featuring complex validation rules using React Hook Form and Zod schemas, ensuring robust user input handling and seamless integration with backend APIs.
- Ensured packages were kept up-to-date by tracking and managing pull requests from Dependabot, minimizing security risks and maintaining project stability.
- Employed Tailwind to create responsive, mobile-first web pages, ensuring a consistent and professional user interface across different devices and screen sizes.
- Integrated APIs in the Next.js application by connecting it with a backend, ensuring seamless data flow and optimized performance for a robust user experience
- Employed Redux for state management, facilitating the handling of complex application states and ensuring a scalable architecture.
- Enhanced and fixed bugs in an existing Angular application, improving overall functionality and user experience.
- Implemented complex forms in React, leveraging react-hook-form for efficient form validation and state management.
- Optimized the React application by employing code-splitting with React.lazy and Suspense, and implementing memoization techniques with React.memo to boost performance.

Vosyn AI -Toronto, Canada
Software Product Lead   **April 2024 - May 2024**

The Vosyn project revolutionizes language technology by integrating voice, video, audio, text, and image capabilities. It enables seamless translation across languages, empowering creators to bridge cultural divides and shape a more inclusive global content landscape.

- Proficiently developed and meticulously reviewed comprehensive deliverables lists for each release within the project roadmap, ensuring accuracy and error-free documentation.
- Collaborating closely with various teams including Frontend, Backend, UI/UX, and QA to ensure seamless communication and coordination.
- Estimating tasks for different releases and conducting thorough quality checks to ensure error-free deliverables.Accurately estimating the scope of work for each release cycle and meticulously verifying deliverables to maintain a high standard of quality and minimize errors.

Front-end Developer   **Jan 2024 - Mar 2024**

- Designing and Implementation of responsive layouts, forms, and interactive components using React, HTML, Tailwind CSS.
- Implemented login and sign-up authentication using AWS Amplify, ensuring secure user management and integration with AWS services.
- Integrated Mapbox and Google Maps to display interactive maps with pins, enabling dynamic geolocation-based features.
- Translated ambiguous requirements into functional features by working closely with professionals and stakeholders to understand their needs and by implementing complex business logic and workflows within the React application.
- Leveraged Fetch and Axios libraries in React to establish efficient asynchronous data fetching and

handling from RESTful APIs, ensuring seamless communication between the front-end and back-end, resulting in enhanced application performance and responsiveness
- Documented the project comprehensively, providing clear guidelines for usage and maintenance, and managed the team to ensure effective coordination and timely delivery of tasks.

QBurst Technologies - Kochi, India

Senior Engineer   **July 2019 - June 2023**

Worked as a Full Stack Senior Engineer in building a token booking platform which enables the business users to create event profiles and the customers to make bookings in any available time slot.

- Played a key role in building the system, using Node.js for the backend and React and Angular for the frontend and contributed ideas to improve performance and scalability while ensuring code quality.
- Developed an advanced image editing application that empowers users to enhance their images and seamlessly add custom properties to selected elements.
- Designed and built a complementary application that helps users book seats within floor plans created using the image editor.
- Proficiently implemented payment gateway integration to facilitate user subscription to diverse service plans.
- Employed lazy loading of modules and routes to defer loading non-essential parts of the application, reducing initial load times and improving user experience.
- Crafted a dynamic user interface featuring interactive elements and refined forms by leveraging React, JSX, and Bootstrap 5. Ensured exceptional responsiveness across various devices and screen dimensions for a seamless user experience.
- Integrated React.js with Node.js and Express to create a full-stack application, utilizing RESTful APIs for seamless data communication between the front-end and back-end, ensuring a cohesive and efficient user experience.
- Employed performance optimization techniques such as memoization, virtual DOM usage, and code splitting to enhance application speed and responsiveness.
- Conducted thorough unit and integration testing using reliable testing frameworks like Jest and React Testing Library, guaranteeing the enduring quality and reliability of the codebase.

Worked as an Engineer in developing a web app for a leading sports company that enables administrators to upload and manage training lessons and courses, using modern web development technologies and frameworks to deliver an engaging user experience.

- Developed responsive user interfaces with interactive components and optimized forms using a combination of Angular 9, React, HTML5, SCSS and Tailwind CSS, ensuring seamless functionality across diverse devices and screen sizes.
- Implemented a feature-rich course navigation and progress tracking system. Engineered an intuitive interface with skip, previous, and next options for seamless navigation through lessons within courses, coupled with a versatile video player. Introduced a sophisticated user progress tracking system, adept at remembering completion states and levels for a personalized learning experience.
- Utilized various asynchronous request methods in Angular, including Promises, Observables from RxJS, and the HttpClient module, to perform diverse API calls, manage data retrieval and manipulation, ensuring adaptability and efficiency in handling asynchronous operations within the application.
- Applied actions, reducers, and the NgRX store to manage complex application states effectively in angular.
- Reduced the number of application bugs from 82 to 4 by conducting unit and integration tests utilizing TestBed, Jasmine, and Karma, ensuring code quality, functional accuracy, and robust test coverage to maintain application reliability and enhance overall software quality.
- Developed and tested web applications rigorously to ensure cross-browser compatibility, employing industry best practices and tools to deliver consistent user experiences across multiple browsers, including Chrome, Firefox, Safari, and Edge

This project encompasses the hosting and continuous maintenance of a portfolio of websites for a prominent Real Estate

group. Our maintenance scope extends to implementing fixes and enhancements in response to client requests.
- Developed websites in React and Angular tailored to client specifications, which entailed designing visually appealing and mobile-responsive web pages to ensure a seamless and attractive user experience.
- Implemented SEO principles to increase search engine visibility.
- Maintained proactive communication with clients, regularly providing updates, addressing inquiries, estimating their needs, and accommodating requested edits.
- Conducted peer code reviews to assess and provided feedback on their contributions.

SKILLS

Front-End Technologies: React.js, Angular, Next.js, JavaScript, TypeScript, HTML5, CSS3, Bootstrap, Tailwind CSS, Material UI

Back-End Technologies: Node.js, Express

AWS cloud services

Testing Libraries: Jest, React Testing Library, Jasmine, Vitest

Build Tools: Webpack, Parcel

Version Control System/DevOps – GIT, GitHub

Tools – Visual Studio, Visual Studio Code, Figma

Project/Quality Management – JIRA, Redmine

Database Management – SQL Server, MongoDB, MySQL queries

Operating Systems – Linux, Windows

Methodologies – Agile (Scrum), SDLC, Waterfall