MANOJ AMIRTHALINGAM

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Professional Summary

I am a dedicated Software Engineer with a passion for turning ideas into dynamic, interactive, and visually compelling digital experiences. I specialize in building user-centric websites and responsive web applications using a robust stack including **HTML, CSS, JavaScript, Typescript, React.js, Node.js, Express.js, and MongoDB.** With a strong attention to detail and a problem-solving mindset, I consistently deliver seamless, scalable, and maintainable solutions. I stay actively engaged with emerging technologies and industry trends to ensure my work remains innovative and effective. I'm committed to creating high-quality digital products that not only meet technical requirements but also enhance user experience and drive business success.

Skills

Technical Skills:
- Programming Languages: JavaScript, Python.
- Tech Stack: MERN Stack (MongoDB, Express.js, React.js, Node.js).

Front-End Development:
- HTML5, CSS3, JavaScript, TypeScript, React.js, Lit, React-Redux, React-Router, React-Query, J-Query, Zustand, Material-UI (MUI), React-Bootstrap.

Back-End Development:
- Node.js, Express.js.

Database Management:
- MongoDB, Mongoose.

Tools & Technologies:
- Visual Studio Code, GitHub, Postman.

Soft Skills:
- Strong Communication, Creative Problem-Solving, Collaborative Teamwork, Attention to Detail

Professional Experiences :- System Engineer-TCS(Front-End (React) Developer | NOV 2021 - Present)

● **Standard Chartered Bank-Singapore.(Front-End Lead | React Developer | FEB-2023 - Present)**

• As a Front-End Developer specializing in React.js, I excel in crafting responsive, high-performance web applications. My expertise lies in delivering seamless user experiences and optimizing applications for speed and scalability.

- Maintaining Code Integrity and Deployment Readiness: Regularly reviewing code submitted by other developers, ensuring adherence to standards, merging approved changes into the main branch, and coordinating deployments to the SIT environment for seamless integration testing.

- Developed reusable UI components and functional conditions, creating a shared library for other developers to efficiently build pages and maintain consistency across the application.

- Collaborating with Cross-Functional Teams: Working closely with designers, backend developers, and product managers to deliver cohesive and user-centric products.

- Optimizing for Speed and Scalability: Implementing best practices to enhance application performance and scalability, ensuring a smooth user experience even under high load conditions.

- Ensuring Code Quality: Writing clean, maintainable, and well-documented code, and performing thorough testing to ensure robust and reliable applications.

- Problem-Solving and Troubleshooting: Identifying and resolving issues efficiently, contributing to the overall stability and reliability of applications.

● **Prudential-USA. (React Developer | OCT-2022 - FEB-2025)**

- Designed and developed responsive UI screens using Lit and React.js along with Typescript for different, ensuring a seamless user experience across devices.

- Developing High-Quality Web Applications: Building and maintaining web applications using React.js to ensure top-notch performance and responsiveness.

- My role is pivotal in bridging the gap between design and technical implementation, ensuring that web applications are both visually appealing and highly functional.

- Integrated GraphlQL APIs to fetch and display dynamic data, improving application functionality and interactivity.

- Collaborated with backend teams to ensure smooth data flow and proper handling of API responses.

- Optimized API calls for performance and error handling, ensuring a robust and efficient frontend.

- **WESTPAC-Australia. (React UI Developer | NOV 2021 - OCT-2022)**

- Developed dynamic, responsive user interfaces using React.js and modern JavaScript

- Collaborated with UX/UI designers to translate design mockups into pixel-perfect, interactive components.

- Ensured code quality and scalability by following best practices, including component reusability and modular architecture.

- Maintained and updated UI components, ensuring timely delivery of features and bug fixes.

Personal Projects

• Have developed more than 40+ projects using Front-End Technologies like HTML, CSS, JAVASCRIPT and REACT.JS

• Developed 3+ Full-stack projects using MERN-stack Technologies in NEXT.js

• Please visit github | portfolio   to checkout my works.

Academic Projects

DESIGN AND ANALYSIS OF QUADCOPTER DESIGNER & ANALYST

• I have developed the "Design and Analysis of Quadcopter" design and simulation using CATIA V5, analyzed the airflow over the aircraft, and found out the drag produced by airflow. And I also applied for a patent for my quadcopter design.

AIRCRAFT DESIGN PROJECT

• I worked on a raft design project (Remodeling LOCKHEED MARTIN F-22 RAPTOR), In this project, we have drawnthe V-n diagram for different fight phases, gust load, and critical loading performance of the aircraft. Then calculate the load distribution over the wing and fuselage and draw shear force diagram, bending moment diagram, and Schrenk's curve and analyzed the the internal structure of our aircraft, i.e., parts like longerons, spars, stringers etc. Finally selected the suitable materials for the various parts of our aircraft.

Certifications

Udemy Certifications:
- React JS Web Development - The Essentials Bootcamp
- MERN Stack Front To Back: Full Stack React, Redux & Node.js
- The Complete Javascript Course 2024:From Zero to Expert!.
- Build Responsive Real-World Websites with HTML and CSS.
- Javascript for Beginners
- Responsive Web Design Essentials - HTML5 CSS3 Bootstrap
- HTML5 Essentials for Beginners

Education

Jeppiaar Engineering College (Affiliated to Anna University).	**2017 - 2021**
Aeronautical Engineering-75%	Chennai,Tamil Nadu.
Sri Ramakrishna Matric Hr.Sec School.	**2016 - 2017.**
Higher Secondary School-85%	Perambalur,Tamil Nadu.
Sri Ramakrishna Matric Hr.Sec School.	**2014 - 2015.**
Secondary School Leaving Certificate-97%	Perambalur,Tamil Nadu.

Extra-Curricular Activities

• Member of the Entrepreneurs Committee in my college.

• Organized "A National level Technical Symposium" at Jeppiaar Engineering College under my leadership.

• Represented the school in Zonal-level Chess and Basketball competitions.

I hereby declare that the above information contained hereby is true and correct.

Place: Tamil Nadu, India.

Yours sincerely,
Manoj.A