MANOJ AMIRTHALINGAM

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About Me

A passionate Software Engineer on a mission to turn ideas into interactive and visually stunning digital experiences, developing user-friendly websites and responsive web applications. Proficient in HTML, CSS, JavaScript, React.js,Express.js,Node.js and MongoDB.Strong problem-solving skills and staying updated with the current industry trends & technologies.

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.

Skills

- Languages: Python, Javascript.
- Stack: MERN stack.
- Front-End: HTML5 | CSS3 | JavaScript | TypeScript | React.js.
- Back-End: Node.js | Express.js.

- Library: Redux | React-Bootstrap | React MUI
- Database: MongoDB | Mongoose.
- Tools: VScode | Github | Postman.
- Soft skills: Communication | Problem-Solving | Creativity.

Professional Experiences

Software Developer-TCS (Front-End Developer | NOV 2023 - Present)

• As a Front-End Developer specializing in React.js and Next.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. Key responsibilities include:

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

- 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.

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

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.

Personal Works

- Have developed more than 35+ 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.

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