MADHAN RAJ

MERN Stack Developer

A highly motivated and skilled MERN Stack Developer with over 3.1 years of experience specializing in developing and maintaining full-stack web applications using MongoDB, Express.js, React.js, and Node.js. Proficient in creating dynamic and responsive user interfaces with HTML, CSS, and JavaScript, along with implementing back-end services to support seamless communication between the front-end and databases.

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Chennai, Tamil Nadu.

Work Experience

APSLOG TECH PRIVATE LIMITED
DEC 2021 - Till Date

Roles and responsibilities:

- Design and develop intuitive, responsive user interfaces using React.js, along with modern tools like HTML5, CSS3, and JavaScript. Ensure cross-browser compatibility and optimize the user experience on various devices. Build and maintain RESTful
- APIs using Node.js and Express.js to manage server-side logic, route handling, and ensure smooth data flow between the front-end and databases. Design, manage, and query databases using
- MongoDB to ensure efficient storage and retrieval of data. Implement indexing and schema design to optimize performance and scalability. Use jQuery to streamline DOM manipulation, event
- handling, and AJAX calls, ensuring dynamic and interactive web experiences. Collaborate with teams through Git and GitHub,
- managing code repositories, performing code reviews, and handling feature branches or bug fixes using version control best practices. Continuously monitor the performance of applications,
- identifying bottlenecks in both client-side and server-side code. Optimize database queries, manage memory leaks, and improve rendering times in React.

Relevant Skills

- React
- Node.js
- Express.js
- Web Development
- CSS
- HTML
- JavaScript
- Mongo DB
- JQuery

Education History

Bachelor of Electrical and Electronics Engineering

GRT IET college

2018 - 2022

Language
- English
- Tamil

Project 2

Project Name : Brit Shop Online

Domain: e-commerce

Duration: Jul 2023 - Till Date

Description:

Brit Shop Online is a niche e-commerce platform specializing in the sale of British products, including food, fashion, home goods, and unique UK-based brands. The website offers a seamless shopping experience with personalized recommendations, product search, and a secure checkout process. The platform integrates third-party APIs for payment gateways, inventory management, and order tracking, with real-time updates for both users and administrators.

Roles and Responsibilities:

- Build and maintain dynamic and responsive user interfaces for Brit Shop Online using React.js.
- Ensure the UI is intuitive, mobile-friendly, and provides a smooth shopping experience across all devices.
- Implement features like product filtering, search functionality, and real-time shopping cart updates.
- Design and implement server-side logic using Node.js and Express.js to support key features like user authentication, order management, and secure payment processing.
- Handle communication between the front-end and the database, ensuring a smooth transaction process.
- Create, optimize, and maintain the MongoDB database for managing user data, product information, and transaction records.
- Design efficient database schemas and implement indexing to ensure fast data retrieval and scalability as the platform grows.
- Integrate external services such as payment gateways, shipping providers, and inventory management systems into the e-commerce platform.
- Ensure these integrations are secure and handle any exceptions or errors gracefully.
- Work closely with designers to ensure that the user interface aligns with the brand's vision and provides an excellent shopping experience.
- Optimize for performance to ensure quick load times and minimal user friction.
- Write unit and integration tests to ensure the stability and reliability of the platform.
- Debug issues as they arise, whether on the client side (React) or the server side (Node.js) Utilize Git and GitHub for version control, managing code repositories, and collaborating with team members.
- Participate in code reviews and ensure that all development follows best practices for code quality and security.
- Continuously monitor the performance of both front-end and back-end systems.
- Optimize React components for fast rendering, reduce server response times, and ensure efficient database queries for large-scale operations.

Project 1

Project Name : Britain Finance Hub

Domain: Banking

Duration: December 2021 - Jul 2023

Description:

Britain Finance Hub is a digital banking platform that provides financial services such as account management, fund transfers, loan applications, investment tracking, and budgeting tools to its users. The platform is built on modern web technologies to deliver a seamless, user- friendly experience. It requires efficient handling of user data, secure transaction processing, and dynamic content rendering. The system is designed to scale with user demand and integrate with various third-party APIs, including payment gateways and financial data providers.

Roles and Responsibilities:

- Develop responsive and dynamic user interfaces using React.js to allow users to easily manage their accounts, apply for loans, and track investments. Ensure that the application is optimized for performance and accessible across different devices and browsers. Implement secure and
- scalable RESTful APIs using Node.js and Express.js to handle core banking functionalities like transaction processing, fund transfers, and account management. Integrate third-party APIs for financial services. Design and manage the MongoDB database to store user account
- information, transaction history, and other financial data. Ensure the database is optimized for performance, using indexing and aggregation pipelines to manage large amounts of data efficiently. Ensure the security of the platform by implementing industry-standard
- authentication and authorization mechanisms, such as JWT (JSON Web Tokens) and role-based access controls. Secure data transmission using SSL/TLS encryption and protect against vulnerabilities like SQL Injection and Cross-Site Scripting (XSS). Use HTML5, CSS3, and JavaScript to create a responsive, user-friendly design that adapts to various screen sizes,
- providing an optimal user experience for both desktop and mobile users. Implement client-side logic using jQuery and JavaScript to manage DOM manipulation, form validation, and asynchronous data fetching via AJAX, ensuring a seamless user experience. Continuously
- monitor the platform's performance, ensuring that the application loads quickly and scales with user demand. Optimize database queries, server-side code, and front-end components to
- improve efficiency.

DECLARATION:

I hereby declare that the information furnished above is true to best of my knowledge.

Date : Place:

Madhan Raj