Karthik.K

Web Developer

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Profile Summary

A skilled web developer with a strong foundation in front-end and back-end development, specializing in creating dynamic, responsive, and user-friendly web applications. Proficient in HTML, CSS, JavaScript, React, and Node.js, with expertise in building scalable and maintainable solutions. Demonstrates a deep understanding of full-stack development, including database integration and API creation, to deliver seamless user experiences. Passionate about coding, problem-solving, and staying updated with emerging technologies to deliver innovative solutions. Known for effective communication, teamwork, and a results-driven approach to achieving project goals.

Technical Skills

Programming Languages: Python, Core Java, C.
Front-End Development : HTML5, CSS3, Bootstrap, Tailwind CSS.
Back-End Development: Node.js.
Database Management: MySQL, MongoDB, Firebase.
Frameworks and Libraries: React.js, Angular, Express.js.
Version Control: Git, GitHub.

Projects

Chat Application (MERN Stack)

A feature-rich real-time chat application designed for seamless communication.

- **Frontend**: Developed using React with ShadCN for modular UI components and styled with Tailwind CSS for a responsive, visually appealing design.
- **Authentication**: Secured with JWT tokens for user verification.
- **File Handling**: Integrated Multer for file/image uploads and downloads.
- **Real-Time Messaging**: Enabled instant communication using sockets, supporting both group chats and personal messages with emoji integration.
- **Backend**: Built with Node.js and Express for scalable and efficient server-side functionality.
- **Database**: Utilized MongoDB for reliable and efficient data storage.
- **State Management**: Implemented Zustand for effective client-side state management.
- **API Interaction**: Facilitated smooth API calls using Axios.
- **Code Quality**: Followed best practices to ensure structured, maintainable code.

Portfolio Website   [Portfolio](#)

A personal portfolio website showcasing projects, skills, and achievements, designed to highlight expertise and creativity.

- **Frontend:** Built using HTML, CSS, and JavaScript for an interactive and visually appealing design.
- **Styling:** Tailored with CSS for sleek and modern aesthetics.
- **Responsiveness:** Fully responsive design ensuring compatibility across devices.
- **Navigation:** Clean and intuitive layout for seamless user experience.
- **Deployment:** Hosted on GitHub Pages for easy access and high reliability.
- **Code Quality:** Developed with clean, structured, and maintainable code.

Mini Projects

Real-Time Weather Application   [Live-Link](#)

A dynamic application providing real-time weather updates with location-based accuracy.

- **Frontend**: Developed using HTML, CSS, and JavaScript for an interactive and user-friendly interface.

- **Geolocation API**: Utilized to automatically detect user location for accurate weather information.

- **API Integration**: Integrated with OpenWeatherMap API to fetch real-time weather data such as temperature, conditions, and forecasts.

- **Styling**: Designed with responsive CSS for compatibility across devices.

- **Features**: Supports manual location input and displays weather details based on current or selected location.

- **Deployment**: Hosted on GitHub Pages for accessible online usage.

Basic Calculator   [Live-Link](#)

A functional calculator application for performing basic arithmetic operations.

- **Frontend**: Built using HTML and CSS for a clean and user-friendly interface.
- **Functionality**: Implemented JavaScript for core arithmetic operations, including addition, subtraction, multiplication, and division.
- **Responsiveness**: Designed with CSS to ensure compatibility with various devices.
- **User Experience**: Includes a clear display and intuitive button layout for ease of use.
- **Deployment**: Hosted on GitHub Pages for seamless accessibility.

Dice Game   [Live-Link](#)
An interactive browser-based game designed for fun and competition.

- **Frontend:** Built using HTML and CSS for a visually engaging and responsive interface.
- **Functionality:** Implemented game logic using JavaScript to simulate dice rolls and determine winners based on random outcomes.
- **User Interaction:** Features intuitive controls and dynamic updates to enhance player experience.
- **Styling:** Designed with CSS for a clean and attractive layout.
- **Deployment:** Hosted on GitHub Pages for easy online access.

Education

Bachelor of Technology in Information Technology   **2022-2026**

Er.Perumal Manimekalai College Of Engineering.

Higher Secondary Education (+2)   **2020-2022**

SRI VIJAY VIDHYALAYA HIGHER SECONDARY SCHOOL, HOSUR.

CGPA: 9.4/10.0