HEMA PUSPA J
Full Stack Developer

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SUMMARY

Passionate Full Stack Developer driven by innovative problem-solving skills with foundational knowledge in Full stack Development, OOPs, and Agile Methodology. Eager to join a collaborative team, contribute to impactful projects, and thrive in the dynamic tech industry. Excited to apply my skills, learn from experienced professionals, and continuously grow while adapting to industry advancements.

PROJECTS

HOTEL RESERVATION APP

Tech Stack: HTML, CSS, ReactJS, MongoDB, NodeJS, ExpressJS, JWT, RESTful API

- Developed a responsive hotel reservation application with ReactJS, ensuring a seamless user experience across devices.
- Integrated RESTful APIs using NodeJS and ExpressJS for secure and efficient communication between the frontend and backend.
- Implemented JWT for user authentication and authorization, enhancing security and user data protection.

WEATHER APP

Tech Stack: HTML, CSS, JavaScript, ReactJS

- The Weather App, initially built with HTML5, CSS3, and JavaScript, was upgraded by integrating the Place Search API from GeoNames for location data and sunrise/sunset details.
- Additionally, the OpenWeather API has been used for comprehensive weather forecasts.
- Transitioned the application to React to enhance functionality and deployed it on Vercel for improved accessibility and performance.

HARDWARE EFFICIENT APPROXIMATE ADDERS AND MULTIPLIERS FOR IMAGE PROCESSING APPLICATION

Tech Stack: Verilog, Image Normalization, Image Scaling

- Implemented Approximate Full Adders, which were integrated into 8x8 Approximate Dadda Multipliers.
- Investigated the use of Approximate Adders (AAs) in image normalization and Approximate Multipliers (ADMs) in image scaling.
- Calculated Peak Signal-to-Noise Ratio (PSNR) values using MATLAB to assess image quality after normalization and scaling processes.

SKILLS

Technical Skills: Java, OOPs, Data Structures, Git, HTML5, CSS3, Bootstrap, JavaScript, React JS, Node JS, Express JS, PostgreSQL, MongoDB

Tools: VS Code, Eclipse, GitHub, MongoDB, Postman, Vercel

EDUCATION

PSG College of Technology, Coimbatore   Jan 2022 - May 2023

M.E – VLSI Design | CGPA – 7.811

Dr. N.G.P. Institute of Technology, Coimbatore   Oct 2017 - May 2021

B.E – Electronics and Communication Engineering | CGPA – 7.48

COURSES & CERTIFICATIONS

1. Full stack Developer Pro (MERN) at Imarticus Learning   Sep 2023 - May 2024

Coursework: Java, Git, JavaScript, PostgreSQL, ReactJS, NodeJS, ExpressJS, MongoDB

Achievements & Responsibilities

- Associative Member in conducting the "HENOSIS" in the year 2020 at Dr. N.G.P. Institute of Technology.
- Participated and won 3rd place in "Battle of Bands" at Dr. NGP Institute of Technology.