R. VENKATA NAGA SAI

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Career Summary:

Passionate and adaptable software enthusiast eager to embark on a journey in the tech industry. Proficient in various programming languages with a strong foundation in problem-solving and a keen eye for detail. Committed to continuous learning and contributing innovative solutions to drive organizational success.

Education:

Qualification	Institute	Board / University	Year of Study	CGPA / Percentage
B.TECH Electronics and Communication Engineering	Prasad V Potluri Siddhartha Institute of Technology	JNTUK	2021-2024	8.66
Intermediate	Narayana Junior College	BIEAP	2018-2020	9.69
SSC	Kumar Public School	BSEAP	2018	10.0

Skills:

Technical skills:

  Python | Flask | React.js |MySQL |Java(moderate) | HTML | CSS | AWS Cloud | JavaScript

Soft skills:

  Communication |Time-management |Team player | Adaptability | Problem-solving |Initiative | Collaboration | Quick learner.

Projects:

1. Home Automation and Analytics

        - This project implements a web application for remote home automation and sensor data visualization. The application utilizes a modern frontend framework (React.js) to deliver an interactive user experience. A robust backend framework (Flask) handles data processing and business logic. Data is persistently stored using a scalable NoSQL database (AWS DynamoDB). Finally, an ESP32 microcontroller bridges the gap between the web application and the physical environment, enabling real-time sensor data acquisition and appliance control. This integrated system empowers users to monitor and manage their homes remotely via the web application, fostering a more convenient and data-driven living experience.

2.BMI Calculator

        - This web application leverages the Flask framework to create a user-friendly Body Mass Index (BMI) calculator. Users can input their weight and height, and the application calculates their BMI along with corresponding health recommendations and improvement strategies. Additionally, the application facilitates the storage and retrieval of past BMI records, allowing users to track their progress and maintain motivation towards achieving a healthy BMI.

3. Typing Speed Test

        - This project involved the development of a web-based application designed to assess typing speed and accuracy. Users can practice typing against provided text passages, with the application calculating their performance metrics. The application further provides educational resources, including tips and techniques, to help users improve their typing efficiency.

4. Temperature Sensing Application using Arduino

        - Built a room temperature monitoring system using an Arduino Uno microcontroller. This application demonstrates data acquisition capabilities for environmental monitoring.

Internships:

1. Omniwyse Technologies Pvt Ltd, Hyderabad (Offline Internship).

- During the internship, focused on developing a real-time web application during an internship. Leveraged HTML, CSS, and React.js to create a dynamic and interactive front-end. Built a robust backend API using the Flask framework and gained valuable exposure to AWS cloud fundamentals. This experience equipped the intern with a comprehensive understanding of full-stack web development.

2. E&ICT Academy, IIT Kanpur (Online Internship).

- Developed foundational knowledge of cloud computing principles and gained practical experience with Amazon Elastic Compute Cloud (EC2) on the AWS platform.

3. South Central Railways, Vijayawada (Offline Internship).

- Interned with a focus on understanding the Route Relay Interlocking System (RRIS), a critical technology for safe and efficient railway operations.

Extracurricular Activities:

- Presented a paper on "Artificial Intelligence".
- Attended a Workshop on PYTHON conducted by APSSDC.
- Presented a paper on "Smart Home Automation".
- Attended a Workshop on PCB DESIGN conducted by APSSDC.
- Participated in several Technical events conducted in college.
- Participated in SITAR2K22, a national level tech fest conducted in our college.

Certifications:

- Certified by NPTEL: Python for Data Science
- Certified by Cisco: Programming Essentials in Python
- Certified by LinkedIn Learning: Introduction to Web Development and Design.