Panchadarla Varshith Sai Raj

Contact Information:

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Hobbies:

- Drawing and painting
- Fitness and Outdoor Activities
- Participating in Hackathons
- Exploring IoT Projects
- Reading about AI and Emerging Technologies

Developer. Engineer. Student

Aspiring developer with a passion for Web Development and Artificial Intelligence/Machine Learning.
Skilled in building user-focused applications using modern front-end and back-end technologies. Eager to innovate and explore intelligent solutions at the intersection of web technology and AI to solve real-world challenges. Dedicated to continuous learning and creating impactful projects.

Skills

Languages: C, C++, JavaScript, Python
Technologies/Frameworks: ReactJs, Next JS, NodeJs, Express, Tailwind css GitHub, Git, Mongo DB, SQLite, Flask,Figma
Coursework: Data Structures, Object-Oriented Programming, Database Management Systems, Operating Systems, Computer Networks

Experience

Web Development Intern
ExternsClub [June 1st, 2024 – July 31st, 2024]

- Designed and Developed: Created a "Digital Marketing Website" inspired by Schbang, showcasing creativity and adherence to industry standards.
- Technologies Mastered: Gained hands-on experience with HTML, CSS, JavaScript, Bootstrap, React, MongoDB, and Node.js.
- Problem-Solving: Enhanced debugging and troubleshooting skills to optimize web performance and user experience.
- User-Centric Development: Learned and implemented best practices for building responsive, user-friendly web applications.

Web Development Intern
EazyByts Web Solutions [december 1st, 2024 – present]

- Designed and implemented web-based applications in collaboration with the development team.
- Developed and maintained server-side logic using Java frameworks like Spring Boot.
- Created and optimized database schemas and queries using SQL and ORM frameworks such as Hibernate.
- Implemented front-end components using HTML, CSS, and JavaScript frameworks, including Angular and React.
- Ensured application responsiveness and performance across multiple devices and browsers.
- Participated in code reviews, debugging, and troubleshooting to deliver high-quality software.
- Stayed updated on emerging technologies and best practices in software development to enhance application efficiency.

AI and Machine Learning Intern
Novitech Pvt Ltd [November 3rd, 2024 – December 3rd 2024]

- Collaborated with a team to develop innovative solutions in Artificial Intelligence, Computer Vision, Deep Learning, and Natural Language Processing (NLP).
- Completed the following major projects:
- Chatbot Development: Built an intelligent chatbot using DialogFlow for automated customer interactions.
- Face Recognition System: Designed an advanced face recognition and tracking system using OpenCV.
- Driver Safety System: Developed a drowsiness detection system to enhance driver safety with Deep Learning.
- Plant Disease Detection: Implemented a deep learning model to detect and classify plant leaf diseases. Plate Recognition: Built an efficient vehicle license plate recognition system for smart surveillance.

Projects

Hostel Management System (FULL STACK PROJECT)
StepCone Hackathon, GMRIT Rajam

- Built a web-based solution to streamline hostel management by automating key tasks.
- Key Features:
  - Student Registration & Room Allotment.
  - Attendance Tracking and Fee Management.
  - Complaint & Maintenance Requests.
  - Admin Dashboard for centralized control.
  - Warden System for communication.
- Impact: Improved hostel operations with a user-friendly interface.
- Link: https://lnkd.in/gbUMXrUD

Fuel Scam Detector (Real-Time Monitoring and Fraud Detection System)
Personal Project

- Designed and implemented a robust system combining hardware and software to accurately measure and monitor fuel flow at high pressures, ensuring precision in real-time data acquisition.
- Developed a Real-Time Data Visualization Dashboard: Integrated real-time fuel flow data into a dynamic, user-friendly dashboard, leveraging Flask, HTML/CSS, and JavaScript to deliver seamless and interactive visualizations for live monitoring.
- Ensured High-Precision Performance: Achieved exceptional accuracy in fuel flow measurements under high-pressure conditions, demonstrating technical expertise in sensor calibration, system integration, and data processing.

Data-driven application with advanced analytics and visualization (Data Science and Analytics)
Smart India Hackathon 2024 – 24-Hour Challenge

- The project involves processing and analyzing large datasets, integrating IoT and social media data, and applying AI/ML techniques for optimization.
- The use of AI/ML for route optimization is a key indicator of advanced data analysis.

Dashboard Development (Front-End + Back-End Integration):

- The Streamlit dashboard adds an interactive visualization layer, making it partially a Full-Stack Application because it combines:
  - A front-end interface (Streamlit for visualization).
  - A back-end database (SQLite for storage).

IoT Integration:

- By incorporating IoT data, the project demonstrates skills in IoT Data Processing and Management.

Education

10th Grade
Dr. KKR Gowtham School, Visakhapatnam — Grade: 92.2%

11th-12th
Sri Viswa Junior College, Visakhapatnam — Grade: 91%

Undergraduation, Computer Science Engineering
Gandhi Institute of Technology and Management, Visakhapatnam — GPA: 8.24

Achievements

StepCone Hackathon: Secured **3rd Prize** in the StepCone Hackathon held at GMRIT Rajam for developing an innovative **Web Development Project - Hostel Management System**.

Community

Research Member, Center of Autonomous Systems
GITAM University, Visakhapatnam — [2024 – Present]

- Built an **Autonomous Car using Arduino**, integrating line-sensing and ultrasonic sensors for **movement tracking, object detection**, and precise motor control to ensure efficient navigation.
- Currently working on a prestigious **Autonomous Self-Parking Car project**, funded with a substantial grant of **INR 1,81,387**, focusing on **object detection and image processing** using advanced AI/ML techniques.
- Presented project demos to distinguished groups, including **Indian Navy officials**, **Education minister**, professors, and school students visiting the research center.
- Organized and managed events, showcasing projects and inspiring visitors about advancements in autonomous systems.