

Tirumani Dileep Kumar

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Summary

Motivated trainee with a strong desire to grow professionally and make a positive impact on the organization's success. Known for effective planning, organization, and a good understanding of best practices. Quick to learn, adaptable, and enthusiastic about gaining skills from experienced professionals. Ready to contribute fresh ideas and work hard to support team goals.

Skills

Python, Flask, Django, Django rest framework, Html, Github, SQL

Internship

Automac Technologies

Application Development Intern, Hyderabad, Telangana

06/2024 - Present

- Developed user registration APIs using Django REST Framework with JWT and OAuth 2.0, enhancing application security and responsiveness. Enabled real-time authentication, reducing unauthorized access by 90% and improving load times by 60% for a seamless user experience.
 - Flask API Development for Frontend Integration
built and deployed APIs in Flask, facilitating smooth data exchange with frontend applications. Collaborated closely with frontend teams to increase data processing speed by 40% and responsiveness by 50%, improving user engagement and interactivity.
 - Django REST API Optimization created scalable, secure APIs with Django REST Framework, enhancing backend performance and reducing data latency by 90%. Integrated these APIs into web applications, improving system efficiency and ensuring consistent response times for thousands of users.
 - Machine Data Extraction and Real-Time Monitoring
Connected to machines via APIs and sockets to extract and structure data in JSON format, improving data processing time by 55%. Enabled real-time analysis, supporting effective monitoring and reducing data retrieval delays by 20%.
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Projects

ATOMS

- Contributed to processing and publishing machine data with MQTT, organized according to client requirements. Visualized live KPIs and historical data on the UI, which improved monitoring accuracy by 95% and provided insights into performance trends.
- Implemented web socket communication for real-time data transmission and developed REST APIs to integrate backend systems. This enhanced data flow efficiency by 85% and allowed for real-time updates in the frontend, boosting user satisfaction and interaction rates.
- Designed and optimized the database schema for efficient data handling and retrieval.

Handwritten Calculator Using Contour Detection

- Developed a handwritten calculator leveraging computer vision and machine learning to interpret handwritten digits and operators for accurate calculations .
- Focused on creating a user-friendly computational experience by designing intuitive algorithms that enhance human-computer interaction .

Parameter Tampering

- Parameter tampering is a web-based cyber attack where URL parameters are altered without the user's consent, potentially compromising data integrity .
 - Due to the attack's nature of manipulating parameters exchanged between the client and server, our mitigation efforts achieved a success rate of only 20%.
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Education

B.Tech, Artificial Intelligence And Data Science

SAGI RAMAKRISHNAM RAJU ENGINEERING COLLEGE, Bhimavaram

05/2024

7.2 CGPA

Diploma, Computer Engineering

Smt B Seetha Polytechnic College, Bhimavaram

09/2020

74 %

SSC

Z P High School , Dongapindi

04/2017

8.3 GPA

Certificates

Application Development Intern, Backend Development, Cyber Security

Declaration

I hereby declare that the contents of my resume are accurate to the best of my knowledge and verify their authenticity .

Place : Hyderabad

Tirumani Dileep kumar