SHERIN REBA PHILIP

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SUMMARY

A dedicated and technically proficient professional with a Master's degree in Robotics and Automation, coupled with hands-on experience in Python and Django web development. Possesses a strong foundation in robotics, computer vision, and software engineering, with a demonstrated ability to solve complex problems and contribute effectively to team projects. Skilled in various technologies, including ROS, Gazebo, HTML, CSS, and JavaScript. Eager to apply technical expertise in challenging and innovative environments.

EDUCATION

Master of Technology, Robotics and Automation   July 2023
Saintgits College of Engineering, Kerala, India   CGPA: 8.6
- Coursework: Robotic System Configuration, AI of Robotics, Digital Image Processing and Computer Vision.

Bachelor of Technology, Electronics and Communication Engineering   July 2021
MBCCET, Kerala, India   CGPA: 6.97
- Coursework: Electronic Circuits, Computer Organization, Digital Signal Processing, Biomedical Engineering, VLSI, Object Oriented Programming, Digital Image Processing.

SKILLS

Technical: Python, Robot Operating System, Machine Learning, HTML, CSS, C++, Latex.
Frameworks & Libraries: Django, Flask, Python Major Libraries and API Handling.
OS & Software's: Windows, Linux, Ubuntu, Gazebo, Overleaf, Visual Studio Code, Google Colab, Microsoft Office

EXPERIENCE

Python Trainee   March 2024-Present
Srishti Innovative, Trivandrum, Kerala
- Developing and maintaining web applications from scratch using Django framework, ensuring robust and scalable solutions.
- Working on front-end integration using HTML, CSS, and JavaScript to create responsive and user-friendly interfaces.
- Collaborated closely with cross-functional teams, including designers and back-end developers, to deliver high-quality features on time.

Junior Software Engineer (ROS)   October 2022-January 2023
Ingen Dynamics, Kozhikode, Kerala
- Developed and simulated robots using Gazebo, creating realistic models and environments to test robotic functions and behaviors.
- Worked extensively with Robot Operating System (ROS), implementing and debugging software for robot control, perception, and navigation.
- Collaborated on feature design, conducted code reviews, participated in Agile meetings, performed rigorous testing, and pursuing continuous learning.

PROJECTS

Solving Kidnapped Robot Problem Using Find Object 2D   November 2022-April 2023
Saintgits College of Engineering, Kerala, India
- Conducted a Localization Problem Project using Find Object 2D. Achieved a 68% accuracy rate after evaluating various options. And updating to 100%.

Detecting Accident using Computer Vision for Traffic Monitoring   September 2021-November 2021
Saintgits College of Engineering, Kerala, India
- Engineered an innovative rural accident detection system using Mask R-CNN and Centroid-Based Object Tracking. Prioritized real-time monitoring, multi-object detection, and seamless emergency service integration.

Quadcopter with Obstacle Avoidance   April 2021-June 2021
MBCCET, Kerala, India
- Designed a quadcopter to detect obstacles and avoid objects efficiently using Ultrasonic Sensor.

CERTIFICATIONS

Robotics - NPTEL
Machine Learning - Udemy
Python and Django Full Stack Web Developer - Udemy
Python and Flask - Udemy
Green Audit – MBCCET

LEADERSHIP, ACTIVITIES, & SERVICE

Teaching Assistant | IETE Member | Assisted Department for NAAC Accreditation | Student's Event Organizer | Student Advisor | Member of College Arts Committee | Assistant of Faculty Advisor