MARY MEENU ANTONY

Master's in Electrical and Computer Engineering | Hochschule Anhalt |
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PROFESSIONAL SUMMARY

Enthusiastic Master's student in Electrical and Computer Engineering with a Bachelor's in Computer Science and Engineering. I have a solid understanding of manual and automation testing concepts and tools, and I am eager to launch my career in software testing and quality assurance. I am highly motivated to contribute effectively, learn continuously, and grow professionally within a dynamic team. With strong analytical skills, attention to detail, and a proactive mindset, I am committed to quickly mastering new testing technologies and supporting the delivery of high-quality software solutions.

EDUCATION

- Master's in Electrical and Computer Engineering
  Anhalt University of Applied Sciences, Germany
  Current GPA: 1.7
- Bachelor of Technology in Computer Science Engineering
  M.G University, India
- Diploma in Web Designing
  iLCC Computer Education

TECHNICAL SKILLS

- **Software Testing (Manual & Automation):** Selenium, JUnit, TestNG, Cucumber, Jenkins, JMeter, Appium, Postman, SQL.
- **Programming Languages:** Python, Java, C, C++.
- **Autonomous Systems:** ROS, SLAM, Lane Detection, Navigation.
- **Project Management Tools:** JIRA, Agile methodologies.
- **Web Development Tools:** HTML, CSS, Adobe Photoshop, Dreamweaver, WordPress, SEO techniques.
- **Languages:** English (C2), German (B1).

PROFESSIONAL EXPERIENCE

Software Testing (Manual and Automation)
Marklance Infotech (Remote, 07/2024- 11/2024)

- Gained hands-on experience in manual and automated testing using Java-based frameworks, ensuring robust software quality.
- Implemented and maintained test automation suites with Selenium, Cucumber (BDD), JUnit, Appium, and JMeter for web and mobile applications.
- Developed and executed detailed test cases to identify defects and validate end-to-end application performance.
- Utilized Jenkins to integrate automated tests into CI/CD pipelines, improving release efficiency and reliability.

- Performed performance and load testing with JMeter to assess system behavior under stress.
- Collaborated with Agile teams using Jira for test management, bug tracking, and sprint planning.
- Skilled in writing clear, reusable test scripts and debugging issues to enhance product quality.

PROJECT EXPERIENCE

1. **Autonomous Systems and Robotics**
   - Developed software for TurtleBot3 using the Robot Operating System (ROS).
   - Used Gazebo simulation tools for software testing and validation.
   - Engineered algorithms for SLAM, lane detection, and traffic sign recognition using LiDAR and RGB-D cameras.
   - Developed sign detection algorithms for recognizing and responding to traffic signs using camera and LiDAR data.
   - Designed real-time mapping and navigation systems
   - https://www.youtube.com/watch?v=iKT8pq-iRQ8

2. **Dual Axis Photon Tracker using Raspberry Pi Pico**
   - **Built** a dual-axis solar tracker using Raspberry Pi Pico to optimize solar panel efficiency.
   - Programmed servo motors and LDR sensors for precise sun tracking.
   - Integrated four light-dependent resistors (LDRs) to detect the sun's position and provide real-time data.
   - Designed an LCD interface for real-time data display.
   - https://www.youtube.com/shorts/uXlYx8z0waw

3. **Raspberry Pi Controlled Aeroponics**
   - Automated plant cultivation through Raspberry Pi, integrating misting mechanisms and environmental monitoring sensors.
   - Developed a user-friendly web interface for real-time control.
   - Installed and configured sensors for precise environmental monitoring, enhancing data-driven decision-making.
   - https://www.youtube.com/shorts/1gkRqnWmUyU

CERTIFICATIONS

- Software Development & Web Design – iLCC
- AWS EC2 – Amazon
- Google Digital Garage – ID: S8K ALU P77
- Content Marketing & SEO – SEMrush
- Software Testing Manual and Automation.

INTERESTS

- Automation and software testing technologies.
- Explore New Testing Technologies,languages.
- Participating in tech meetups.
- Continuous learning through online courses and certifications.
- Working with kind, smart people who are willing to teach and grow together.
- Travelling nature friendly places.