Jay Khandagale

IOT CONSULTANT
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SUMMARY

Dynamic IoT Consultant with 2 years of experience developing scalable IIOT solutions using the ThingWorx platform. Proven expertise in designing, building, and configuring applications to meet complex business and technical requirements. Skilled in troubleshooting, debugging, and optimizing application performance for improved system efficiency. Experienced in Unity with C# , JavaScript scripting for developing interactive AR/VR applications, creating immersive user experiences that enhance engagement. Proficient in integrating IOT technologies with platforms like **ThingWorx, Kepware, and MQTT** for seamless, real-time data management. Adept at collaborating with cross-functional teams to deliver high-quality software solutions and streamline workflows.

EDUCATION

Dr. D Y Patil School of Engineering & Technology, Pune

B.E AUTOMOBILE ENGINEERING   *2018 – 2022*

EXPERIENCE

AR/VR & IOT Consultant   Aug 2023 – Present
Tata Technologies

GET - AR/VR & IOT Applications   Aug 2022 – 2023
Tata Technologies

Work Experience:

- Developed POCs using the ThingWorx platform to demonstrate the potential of IIoT solutions in various industrial scenarios.
- Integrated Kepware Server and various communication protocols like MQTT, HTTPs for seamless data flow.
- Created intuitive ThingWorx Mashups for real-time data visualization and user interaction.
- Configured and modeled Things, Templates, and Shapes within ThingWorx to prototype scalable network hierarchies.
- Provided support by troubleshooting and resolving IOT-related issues and managing service requests for ThingWorx applications to ensure minimal downtime.
- Leveraged Unity with C# , JavaScript scripting for building interactive AR/VR applications, enhancing user engagement and creating immersive experiences in virtual environments.
- Explored the use of ThingWorx Analytics at a basic level to enhance decision-making with data-driven insights.
- Actively contributed to the company's innovation initiatives by exploring emerging IOT technologies and proposing innovative ideas for product development.

PROJECTS

- **AR Inspection and Reporting System using ThingWorx :**

  - Developed an Augmented Reality (AR) Inspection and Reporting System using Unity and ThingWorx.
  - Enabled real-time data collection and streamlined workflows, enhancing visualization and decision-making.
  - Leveraged ThingWorx platform and AR technology for increased efficiency and improved productivity.
  - Enhanced productivity by 15% through streamlined workflows and improved data accuracy, paving the way for scalable future applications.

- **Integration of Kepware Server Data with ThingWorx Platform for IoT Visualization:**

- Developed a project utilizing demo data from Kepware Server and visualizing it on the ThingWorx platform.
- Created a user-friendly mashup for data visualization, enabling easy interpretation and analysis of IoT data.
- Contributed to enhancing data-driven decision-making processes by providing actionable insights through intuitive visualizations.

- **MQTT Data Monitoring and Analysis Project:**

- Integrated MQTT in ThingWorx to monitor real-time data from critical equipment on the automotive assembly line, including sensors tracking motor temperature and conveyor speed.
- Created a user-friendly ThingWorx Mashup for easy visualization, enabling operators to monitor equipment conditions at a glance.
- Enhanced maintenance efficiency by providing instant alerts for abnormal values, helping prevent equipment failures and reducing assembly line downtime.

TECHNICAL SKILLS

- **IoT Platforms:** ThingWorx, Kepware, Thingworx Navigate, Thingworx Analytics
- **Programming Languages:** JavaScript, React Js, SQL, CSS, C#
- **Communication Protocol:** MQTT, HTTPs
- **Other Skills:** Experience with real-time data using Tables, Streams, and Value Streams in ThingWorx.
- **AR Tools:** Vuforia Engine, Vuforia Studio, Unity

CERTIFICATION

- **ThingWorx Fundamentals (Overview, Connectivity, Mashup, Experience, Modeling)**
- **Kepware Fundamentals Overview**
- **ThingWorx Developer Certificate** – *In Progress*
- **HiveMQ MQTT Associate Certification**
- **HiveMQ MQTT Professional Certification**
- **Unity and C# Basics (Coursera)**