Jay Khandagale

AR/VR & IOT CONSULTANT

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SUMMARY

Dynamic AR/VR & IoT Consultant with 2 years of experience in developing scalable ThingWorx solutions for Industrial IoT. Skilled in integrating IoT technologies with platforms like **ThingWorx, Kepware**, and various communication protocols (MQTT, HTTPs). Proficient in creating real-time data visualizations, with a foundational understanding of predictive analytics using ThingWorx Analytics.

EDUCATION

Dr. D Y Patil School Engineering & Technology, Pune

B.E IN 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.
- 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 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.

TECHNICAL SKILLS

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

CERTIFICATION

- **ThingWorx Fundamentals (Overview, Connectivity, Mashup, Experience, Modeling)**
- **Kepware Fundamentals Overview**
- **ThingWorx Developer Certificate** – *In Progress*