

Swapnil Papat

Title: Technical Leader (IT Solutions Architect)

Location: Pune, India

Languages: English (fluent), Gujarati, Hindi.

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Experience Summary

- I am a seasoned IT professional with 12+ years of experience, including 10 years of developing and supporting IoT solutions Architecture using ThingWorx platform, UI design, JavaScript, and SQL Server.
- Skilled in delivering IoT projects in a rapid and agile manner using RAD (Rapid Application Development) methodology.

Key Skills:

- **Functional:** Manufacturing, IIOT.
- **Technical:**
 - ThingWorx IoT Platform (Proficient)
 - SQL Server
 - Git versioning
 - HTML5, CSS, JavaScript, jQuery
 - Application Software Development, Testing, Deployment, Database, Network, and web technologies.
 - Automations using Jenkins.
 - Cloud – AWS, Azure, Oracle and Google
- **Non-Technical:**
 - Effective communication and collaboration skills with internal and external stakeholders.
 - Ability to work independently and as part of a team in a fast-paced environment.
 - Adaptability and flexibility to changing requirements and priorities.
 - Eagerness to learn new technologies and tools.
 - Expertise in creating and following Standard Operating Procedures (SOPs) and Guidelines for Development.

Professional Experience

Schaeffler Technology Solutions India Pvt Ltd (August 2023 to Current)

August 2023 – Current	
Project:	PLM Apps
Client:	Schaeffler Group
Environment:	ThingWorx IoT Platform 9.6.1 ThingWorx Navigate 9.6.1 ThingWorx Flow 9.6.1 SQL Server 2019 PingFederate 11.2.5.0 GitHub
Role:	IT Solutions Architect
Description:	<p>The Schaeffler Group is a global automotive and industrial supplier. Schaeffler develops and manufactures components, systems, and services for powertrains and chassis, as well as rolling and plain bearing solutions for a large number of industrial applications.</p> <p>With PLM Apps We try to solve different use cases using thingworx.</p>
Tasks:	<ul style="list-style-type: none">• Worked as a Solutions Architect in a agile environment, delivering innovative and robust solutions in two-week sprints, using Thingworx platform and UI design skills.• Defined coding standards and best practices for team for development in Thingworx.• Added new servers to system landscape for hotfix deployments.• Architecture Design & Review of Thingworx Engineering Apps – TaskFinder, Common Incident management.• Enhanced CICD process with Jenkins.• Setup Future System Landscape for Thingworx Platform.• Set up standards and best practices for Thingworx development.• Designed Training Plans and organized monthly workshops for Team.• Recruitment and building of Thingworx Development and Operations team in India.• Taking strategic initiatives and decisions for growth of organization.

Cognizant Technology Services Pvt. Ltd (April 2021 to August 2023)

January 2023 – August 2023	
Project:	WorkCentre Performance Monitoring
Client:	Pfizer Inc
Environment:	ThingWorx IoT Platform 9.3.0 SQL Server 2019 GitHub
Role:	Senior ThingWorx Developer
Description:	Pfizer is a leading research-based biopharmaceutical company. Pfizer intends to build a smart factory ecosystem to automate and bring efficiencies in each plant's manufacturing and operational procedures. WPM application focuses to provide plant operations insights and key performance indicators to operate the plant efficiently.
Tasks:	<ul style="list-style-type: none"> • Worked as a team player in a SAFe agile environment, delivering innovative and robust solutions in two-week sprints, using Thingworx platform and UI design skills. • Collaborated closely with the backend database team to ensure seamless integration and optimal performance of the solutions, meeting the client's requirements and expectations. • Provided prompt and effective support to the client on any defects or enhancements requests, leveraging problem-solving and communication skills to achieve customer satisfaction. • Engaged actively in all SAFe agile ceremonies and meetings, sharing insights and feedback, and contributing to the business success and value delivery. • Troubleshoot and debugged issues for support tickets, using analytical and technical skills to provide solutions and ensure quality standards.

April 2021 – January 2023	
Project:	Production Visibility – SmartFactory UK
Client:	Kohler
Environment:	ThingWorx IoT Platform 9.1.5 Kepware (ThingWorx Industrial Connectivity) SQL Server 2016 Bitbucket
Role:	Lead Senior ThingWorx Developer
Description:	Kohler aims to create a smart factory ecosystem to automate and optimize the manufacturing and operational processes of each plant. Production Visibility application provides plant operations insights and key performance indicators to enable efficient plant management.

Tasks:	<ul style="list-style-type: none"> • Communicated effectively with the Kohler business team to elicit their requirements and documented them in a well-defined Functional Requirement Specification document. • Planned the development of solutions based on requirements, divided into various release plans, using agile methodology, with a team of developers. • Built and deployed solutions in Dev, QA, UAT, and Production environments, ensuring quality and functionality, with a team of developers. • Maintained code integrity and security by tracking all code changes in Bitbucket version control system. • Supported the client on any defects or enhancements requests and resolved them in a timely and effective manner, using problem-solving and communication skills. • Enhanced solutions as per user requirements, using ThingWorx platform and UI design skills. • Resolved issues for support tickets by troubleshooting and debugging, using analytical and technical skills.
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Eaton Technologies Pvt Ltd(June 2020 to April 2021)

OEE Solution – Supporting Existing solution Developed on Thingworx Foundations.

FSU (Factory Services Unit) of PTC provides the latest Solutions for Manufacturing use cases as below.

Implemented(Deployment, Configuration, Localization, Support) these use cases on different Plant Sites.

RTPPM – Real-Time Production Performance Monitoring

AMU – Asset Monitoring and Utilization

CWC – Connected Work Cell / Digital Work Instructions

June 2020 – April 2021	
Project:	OEE Solution and FSU Use Cases
Client	EATON Aerospace, Hydraulics, Vehicle

Environment:	ThingWorx IoT Platform 8.5.7 Kepware (ThingWorx Industrial Connectivity) SQL Server 2012
Role:	Analyst – IT
Tasks	<ul style="list-style-type: none"> • Deployed, installed, and configured FSU (Factory Services Unit) use cases for different plants on ThingWorx platform, using ThingWorx platform and UI design skills. • Enhanced solutions as per user requirements, using ThingWorx platform and UI design skills. • Integrated PTC Vuforia with ThingWorx using Experience Services to display real-time data on Vuforia View app, demonstrating AR/VR capability. • Raised cases with PTC support to get resolution of platform specific issues, using communication and problem-solving skills. • Raised incidents with Factora ServiceNow to get resolution on FSU use cases, using communication and problem-solving skills.

Capgemini India Private Limited (March 2014 to June 2020)

June 2018 – May 2020	
Project:	Overall Equipment Efficiency (OEE) Solutions
Client	ABB EPIS (Electrification Products Industrial Solutions)
Environment:	ThingWorx IoT Platform Proficy Plant Application Proficy Historian SQL Server 2008 (creating stored procedures), SSRS Reports
Role:	Consultant
Tasks	<ul style="list-style-type: none"> • Analyzed the business requirements and delivered OEE solutions to machinery plants to improve the efficiency of each machine, using ThingWorx platform and UI design skills. The OEE solutions included data collection, analysis, visualization, and reporting of various metrics such as availability, performance, quality, and downtime. • Created dashboards for televisions mounted on production units, using ThingWorx platform and UI design skills. The dashboards displayed real-time and historical data of the machines and processes, as well as alerts and notifications for any issues or anomalies.

	<ul style="list-style-type: none"> Created shift handover report which shows time gaps in the handover of shifts by operators, using ThingWorx platform and UI design skills. The report helped to identify and reduce the time wasted in the handover process and improve the productivity and accountability of the operators. Created maintenance report which calculates maintenance time for each machine for given duration of time, using ThingWorx platform and UI design skills. The maintenance report helped to track and manage the maintenance activities of each machine, such as preventive, corrective, or predictive maintenance, and reduce the downtime and costs associated with them. Created escalation mechanism which notifies/escalates plant leaders about the status of machines and processes done by operators on machines, using ThingWorx platform and UI design skills. The escalation mechanism helped to ensure timely and effective communication and resolution of any issues or problems that occurred in the plant operations and improved the quality and reliability of the products and services. Configured the entire plant for around 56 machines which include UPS, assembly, production, and cooper lines, using ThingWorx platform and UI design skills. The configuration involved setting up the connections, parameters, properties, events, services, subscriptions, mashups, widgets, etc. for each machine and process in the plant, using ThingWorx Composer and Mashup Builder tools.
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January 2017 – June 2018	
Project:	GE Proficy for OEE Solutions
Client	GEIS (GE Industrial Solutions)
Environment:	ThingWorx IoT Platform 6.6.7 Proficy Plant Application Proficy Historian Eclipse for Widget Development SQL Server 2008 (creating stored procedures), VBA
Role:	Associate Consultant
Description	<p>→ The project is about providing OEE solutions to Machinery plants. Analyze the business requirement and provide the OEE report to improve the efficiency of each machine on the site.</p> <p>→ Development of portal screens for all sites with live data in ThingWorx.</p>

Tasks	<ul style="list-style-type: none"> • Dashboards Development in ThingWorx. • Configurations in GE Plant application. • Modifying/Customizing ThingWorx Widgets in HTML, CSS, and JavaScript. • Configure all required settings in Plant Applications for OEE calculation. • Performance Monitoring of Servers and all applications.
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January'2016 – December'2016	
Project:	Airbus Cockpit
Client	Airbus
Environment:	ThingWorx 6.6.1, Apache Tomcat 8.0, SQL Server 2012
Language	JavaScript, Webservices, angularJS.
Role:	Senior Software Engineer/Senior Analyst
Description	<p>Airbus SAS is a division of the multinational Airbus Group SE that manufactures civil aircraft.</p> <p>The scope of this project is to get Data from the Windchill application via Web Services to ThingWorx. Displaying data in the required format that is easily viewable in ThingWorx.</p> <p>Visual management of tasks. The faster way to find urgent tasks. Perform a search on the user Task list by applying various criteria.</p>
Tasks	<ul style="list-style-type: none"> • Developed several mashups following standard UX/UI practice as per project requirements using the ThingWorx Platform. • Troubleshoot issues and Verification of Fixes.

Training and Certifications

Certification Name	Provider	Date
Thingworx Developer Model Specialist Exam	PTC	Nov 2025
Thingworx Developer Exam	PTC	Dec 2025
BEET – Business Excellence through Empowered Teams	Beyond Horizons	Oct 2025
Prompt Design in Vertex AI Skill Badge	Google	Dec 2025
ThingWorx Associate Certificate 2023	PTC	May 2023
Microsoft Azure Fundamentals	Microsoft	April 2022
AWS Cloud Practitioner Certificate	Amazon	Feb 2022
ThingWorx Professional Certificate	PTC	Dec 2021

Education

Educational Record (In Reverse Chronological Order Starting with Highest Degree)				
Course of Study	Specialization	Name of University	Address of University	Year of Completion
Bachelor of Engineering	Computer Engineering	Gujarat Technological University - Ahmedabad	ACPC, L. D College, Ahmedabad	2013 (8.48 CGPA)
HSC	Science	G.S.H.S.E. B	GHSEB, Gandhinagar, Gujarat, India	2009 (77.60%)
SSC		G.S.E. B	GSEB, Gandhinagar, Gujarat, India	2007 (85.38%)

Professional Organizations

Organization's Name	Designation	Dates of Employment		Location (City & State)
		From (DD-MON-YYYY)	To (DD-MON-YYYY)	
Schaeffler Technology Solutions India Pvt Ltd.	Technical Leader	16-08-2023	Current	Pune, Maharashtra
Cognizant Technology Solutions Pvt Ltd.	Sr. Associate	23-04-2021	14-08-2023	Pune, Maharashtra
Eaton Technologies Pvt Ltd	IT Analyst	01-06-2020	19-04-2021	Pune, Maharashtra
Capgemini India Pvt Ltd.	Consultant	27-03-2014	28-05-2020	Gandhinagar, Gujarat
Tatvasoft Co Sourcing Pvt. Ltd.	Developer	01-07-2013	27-12-2013	Ahmedabad, Gujarat