Dwarakanath Varunkumar A

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Summary

IoT Developer with 5+ years of professional experience where in 3+ years into IoT Design and Development which involved Data modelling, Mashups development, Device connectivity with ThingWorx, Installing and upgrading. Experienced includes Design, Development, Analysis, UI design, Industry 4.0 (IIoT) communication, ThingWorx and cloud Technologies (AWS), Presale and client Technical interaction. Successfully Implemented various IoT Applications using Thingworx, AWS.

Skill Highlights

- Experienced in End to End Thingworx IOT Application Development.
- Hands-on in developing business logic mashups and services.
- Made Kepserver EX connectivity with ThingWorx and AWS.
- Developed various IIoT solution using Thingworx platform and created custom application.
- Experience also involves in Vuforia studio, Vuforia Engine, view, Unity 3d, AR application development and integration with ThingWorx.
- Sound Knowledge on AWS IOT Platform-(Lambda, s3bucket, EC2), Azure (IoT hub, IoT Central, steam analytics, Functions)
- Sound knowledge on Influx DB, Timescale DB, with Grafana visualization.
- Developed End to End IoT Solution in various vertical domains like Manufacturing Sector, Energy Utilities & Medical Sector.
- Experience in Customer facing and Consulting roles.

Areas of Expertise

- IoT Applications
- JavaScript
- Cloud (AWS IoT/ Azure IoT)
- Thingworx
- Python 3
- Azure Devops (CI/CD)

Experience

Consultant IIoT
Deloitte India , *Chennai, India*

Mar 2020 -Till date   Industries: Automobile, Entertainment Media

- **Ford Motors**

  Manufacturing zone board (Ford motors) plant production line (USA). Application Remotely monitors different KPI in a Manufacturing plant.

- **Deloitte**

  Manufacturing Command Centre Plant life monitoring system, Designed and developed using AWS cloud platform and services.

- **Caterpillar**

  Have developed serverless application for localization service.

- **First Abu Dhabi Bank**

  Have developed API and infrastructure requirements

Technologies: Thingworx Foundation, Thingworx manufacturing app, Kepserver EX, Azure DevOps, AWS (IoT core, Sitewise, SNS, SES, Lambda, EC2, API Gateway, Cognito), MQTT, Docker, Next JS, React JS.

Senior Engineer IIoT
Redeem Systems Private Limited Bengaluru, Karnataka, India

Sep 2018 – Feb 2020   Industries: Consumer goods, Pharma, Logistics, Energy, Automobile

- ENZEN

  Substation Monitoring System, Transformer Monitoring System, Peak Load management, Meter Data Management, Meter GIS Information, Energy Audit System

- TITAN

  Plant monitoring system, Application Remotely monitors different KPI in a plant and also trigers alerts in cae of thershold.

- Berry Global

  Production line and warehouse Inventory management system with FIFO enabled

- Express Global

  Forklift health monitoring system with billing system enabled.

- Design groups

  Design and development of UI for Glass preform calculation

- P&G

  Assert management system, Employee Shift Hanover Application, Delivery challan.

- Scapic

  Created an AR product for projecting the 3d model of various machines (VMC, CNC, etc) and user can also view its exploded view in AR. Tools: Creo, Vuforia, unity3d, 3dxmax, blender, Zbrush.

- Ambience Refrigeration

  Refrigeration monitoring device which pushes data to the cloud in a periodic way.

Technologies : Thingworx Foundation, Thingworx manufacturing app, Kepserver EX , SQL, MSSQL , CSS, Unity 3d, MQTT

Internship

Maxbyte Technologies Coimbatore, Tamil Nadu, India

Aug 2017 – May 2018   Industries: Pump

CRI Pumps

- Developed solution using Thingworx platform and Enabled device communication using Rest API.
- Predictive Maintenance, Pump Design Process, Predictive analytics Algorithms, Python, Thingworx.
- IIoT Connectivity, Dashboard (UI, UX design) for Industry 4.0 and Augmented Reality Enabling.

Engineer in Training

MS GLOBAL AUTOMOTIVE PVT LTD, Chennai, India

Nov 2015 – Aug 2016   Industries: Automobile

- Overall production line in charge for line optimization and implementation of Production Line automation (Industrial 4.0) and FIFO improvement.
- Based on customer's requirement new Production plan is formulated, PPAP. Handling and ensuring the correctness of production and quality reports.

Assembly line Supervisor

Srimarg(MSGI) Daimler campus , Chennai, India

Jun 2014 – Nov 2015   Industries: Automobile

- Line In-charge (Deputed in **MS GLOBAL AUTOMOTIVE PVT LTD**).
- Production line supervising and Supporting operators to achieve target in terms of quality and quantity.

Education

PSG College of Technology

Master's Degree   PRODUCT DESIGN AND COMMERCE   2016 – 2018

- Development of Predictive Maintenance (PM) framework for Industrial Fluid System. Thingworx, Tensor Flow (1.x.), Keras
- Service and Maintenance System using Aras PLM
- Designing of Multi Terrain Trolley Bag (2017)

S.A Engineering College

Bachelor's Degree   Mechanical Engineering   ***2010 – 2014***

Activities and Societies: ROBOTICS CLUB

- Performance Analysis of Automobile Radiator by using Nanofluid based Coolant
- Design and development of MAGNETIC HYRAULIC TURBINE
- Prototyping Robotic Arm with muti- terrain vehicle

Certifications

1. FUNDAMENTALS OF IOT DEVELOPMENT WITH THINGWORX
2. Master Diploma in Automotive design.
3. Completed Robotic course in Carnegie Mellon University through distance education.

Programming Languages: **JavaScript, Python 3, HTML5, CSS, SQL, Nosql**,
Simulation/ Rendering : **Autodesk 3ds Max, Unity 3D,Vuforia,Blender ,Creo**

Yours Truly,

A. DWARAKANATH VARUNKUMAR