

## KOWSALYA VIJAYAN

Graduate, MIS, NJIT

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### PROFILE SUMMARY

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- Innovative problem solver with a high degree of research acumen and ability to manage multiple tasks simultaneously while adapting to different roles in IT
- Worked in software industry for about 10 years at all levels of Software development life cycle and different technologies in both Product and Service based companies, contributing to a strong foundation in software engineering.
- Dedicated, hardworking individual with the interpersonal and communications skills to work and educate personnel at all levels of the organization
- Submitted numerous innovative ideas including quality invention disclosure for patent in the organization and demonstrated ideas in various forums
- Created Test Automation framework for automated testing by connecting embedded systems with cloud
- Lean six sigma green belt Candidate and through various process improvements in IT applications. Also completed 3 kaizen certifications
- Regular contributor of Hackathon events and have won numerous awards
- Have exposure in working with both Datacenter and Cloud hosted IT applications

### EDUCATION

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NEW JERSEY INSTITUTE OF TECHNOLOGY, NJ

MS in information systems, Sep 2021 – Dec 2022

GPA-4.0

IRTT, ERODE, TAMILNADU, ANNA UNIVERSITY May 2009, INDIA

*Bachelor of Technology, Information Technology*

Result: First Class with Distinction

### COMPUTER/TECHNICAL SKILLS

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**Development-** Bootstrap/CSS/HTML, Docker, Application hosting Azure, Core java, C, C++,SQL, Python, Git

**Business analysis-** Agile, waterfall, Axure RP ,UXPIN,UAT,UX/UI, Requirement Analysis and Negotiations with Business clients , System Integration Requirements, Managing Global teams.

**Production Support, IT operations-** .Net suite of applications (24/7 SLA1), Software Audit, Disaster recovery, Password Management, Managing escalations

**Testing-** JIRA, Unit ,Integration Testing , Automation-JUNIT, Selenium, cucumber , APPIUM for mobile testing, Mutation testing

**Data Analytics:** Exploratory Data Analysis, Data Visualization, Feature Engineering and Modelling

## WORK EXPERIENCE (2010-2021)

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### Work Experience 1: FORD TECHNOLOGY SERVICES INDIA, Chennai, India.

Current (FORD SMART MOBILITY PVT LTD, INDIA)

Dec2010-Jan 2021

#### Senior Software Analyst

##### 1. Test Automation May2018- Jan 2021

###### *Product Launch for North America/India*

- Core Concentration –
  - a. Testing IT applications integrating with Embedded Systems – System/ Functional/ Integration/ Regression/ Unit
  - b. Design and Implement Mobile Platform for Indian Market by Coordinating with Joint Venture Companies.

###### *Testing*

- Learnt various tools on Test automation and worked on System, Functional & Integration Testing.
- Analyzed, worked with global teams and created automation framework (combination of IT application /Embedded Modem & Mobile App) which will save around 20 hours of Manual Work
- Expertise on Vehicle Simulators and Mobile Emulators and integration with IT systems

###### *Joint Venture Project*

- Designed IT system interaction with Mobile App
- Coordinated with Bosch/Mahindra & Ford Teams for Development

##### 2. Designing product May2016- May 2018

###### *Product Launch for North America*

- Core Concentration-Agile, Cloud Hosting
- Requirement Analysis and System design for Cloud based IT applications
- Experience in both Waterfall and Agile Approach of Delivery
- Designed the following Systems
  - a. Web based System for Customer Support Personnel to resolve issues with “Phone as a Key” Product
  - b. Web based System for Maintaining Insurance Records of Retail as Well as Fleet Customers
  - c. Web based System for Updating and Maintaining Security /Integrity related Vehicle Data
- Coordinate Global teams for development and delivery to Customers

##### 3. Integration Business Analysis May2015- March 2016

###### *Product Launch for China*

- Core Concentration – Quality Assurance
  - Coordinated People from different Geographical locations (China/ US /Europe) for Vehicle Launch with Emerging Technologies
- Lead Testing/Integration of IT systems with Embedded Modem technology for Vehicle Launched in US /China
- Two Business Trips to China for Embedded Modem Program launch for Lincoln Vehicle.

## **Software Analyst** Dec2010- May2015

### **IT operations/Production Support**

- Managed 32 Global IT Applications critical to Manufacturing Vehicles.
- Stabilized Applications and provided Process improvements through Six sigma and Kaizen initiatives
- Showcased and demonstrated various best practices which was implemented and helped improved IT metrics
- Submitted numerous innovative ideas for Patents and have won quality invention disclosure awards

## **Work Experience 2: COGNIZANT TECHNOLOGY SERVICES, INDIA**

### **Programmer Analyst Trainee** Feb 2010 – August 2010

- Learnt Software Life Cycle Methodologies, Software Architecture Framework.
- Learnt Front end coding using HTML, CSS & JSP
- Completed Real Time Project using Java, Enterprise Java Bean & Servlets

## **ACHIEVEMENTS**

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- *Employee of the Quarter* – 2010
- Part of Critical Production Team all contributions recognized with *-Team of the Quarter* 2010
- Certified *Lean Six Sigma Greenbelt*, 2016
- Stabilized Process and completed 3 *Kaizen* certifications with \$40 K dollar savings for the organization
- *Asia Pacific Award Nominee* – For Best support for Critical IT Applications
- *Best Prototype Award* – for Innovative design of idea
- *Quality Invention disclosure*- For submitting best idea for Patent
- *Best practice fair*- Nominated for best quality enhancement
- *Top Achiever*- Automating Fully Networked Vehicle
- *Best UI/UX* – FemmeHacks, hackathon organized by University of Pennsylvania

## **INNOVATIONS AND PROJECTS:**

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### **University Projects**

#### *MS project*

Research project on improving the efficiency of software unit testing through implementing and reducing mutations in the automation framework

#### *NJIT -Hackathon 2021*

A touchless Rental Car service integrating Vehicle with Cloud and Mobile App using connected Vehicle concept.

#### *FemmeHacks 2022, University of Pennsylvania*

Built and demonstrated educational website using bootstrap & CSS.

### ***UX/UI designs***

- 1.Social Matching App
- 2.E-learning Website
- 3.IT procurement system
- 4.Fitness Website

### ***Data Analytics***

Identification of the probability of Credit Card Fraud transactions using machine learning techniques , a competition organized by IEEE Computational Intelligence society

### **Corporate projects**

1.Plant Floor applications: Exposure in working on IT applications running in Ford Vehicle Manufacturing plants

Supporting customers / fixing Production issues 24/7

2.Best practice: Implementing 5Y analysis for Problem solving Production Issues

3.Hackathon:

- ***Onboard (Vehicle)Thread Detection System***: This will take care of protecting Vehicle from Hackers entering through network traffic- This idea won both Best prototype award as well quality invention disclosure. Demonstrated in Global forum
- ***Voice based Control for Connectivity Settings***: This will control entities related to Data analytics /sharing with Voice from the Vehicle
- ***Workspace setup using technologies for COVID-19***: Designed system using IOT (Raspberry Pi) for data collection and projecting environment setup using elegant display for employees to maintain social distancing

4. Automation -Fully Networked Vehicle/Mobile App: Created/Designed/ Implemented framework to automate IT applications hosted in Cloud with Embedded Systems.

5. Smart Mobility Applications: Requirement Analysis, Design, and Implementation of IT applications with emerging technologies

### **WORKSHOPS ATTENDED:**

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- BSNL, Govt of India, Workshop on Communication Technology ,2009
- Corporate Mobility Conference, Ford Motor Company
- Internal Hackathons
- Innovation Forums & Discussions
- Corporate Women in IT Technology discussions – regular sessions

### **EXTRA- CURRICULAR:**

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- Conducted several workshops for college graduates in the organization
- Supported school students through outreach programs
- Published newsletters for the department
- Upgrade technical skills through online resources like- Books24/7, Pluralsight, LinkedIn
- Member of Corporate Social Responsibility (CSR) Pillar concentrating on environment and people. Mentoring & inspiring students with Innovations and IT application usage in day-to-day life.