## Umamaheswararao Kotaru

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## Professional Summary

Accomplished servant-leader capable of delivering large-scale software development projects on time and on budget by effectively collaborating, facilitating, leading and coaching multiple Scrum teams. Expert at driving the adoption and enforcement of Scrum rules, removing impediments and fostering self-management. Capable of bringing overwhelming enthusiasm and awareness to projects, applying expert judgment to the removal of impediments, keeping teams focused and delivering success in rapidly evolving and dynamic environments.

* Software Engineering Manager with 14 years of experience in building, architecting and delivering highly scalable systems/software across a variety of domains and technologies.
* Currently working as Engineering manager for Pega Robotic Automation Studio (formerly OpenSpan) Development team.
* Strong experience in Design and Development of Robotic Process Automation (RPA) solutions using Pega Robotic Automation Studio (OpenSpan)
* Proven track record of growing small teams into mature scalable organization that deliver high quality products
* Core technical competencies are in the areas of RPA, RDA, C#, Windows Communication Foundation (WCF), Restful API, Windows Applications, WPF, .NET Framework 4.0, ASP.NET, JQuery
* In depth knowledge of Object-Oriented Programming (OOP) concepts
* Good at leading a team in onsite-offshore model of project execution
* **Microsoft Certified Professional**: Microsoft.NET Framework 2.0 - Application Development Foundation (Exam No: 070-536)
* **Certified ScrumMaster®**

## Experience

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| **Organization** | **Designation** | **Duration** |
| Pegasystems | Engineering Manager | April 2017 to Till date |
| Toshiba Mitsubishi-Electric Industrial Systems-Corporation | Development Manager | February 2012 - April 2017 |
| Microsoft Corporation, USA (through Idea Entity Tech Solutions Pvt. Ltd) | Senior Software Engineer | December 2008 – December 2011 |
| SoftSol India Ltd. | Software Engineer | September 2006 – December 2008 |

## Technical Skills

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| Operating System | Windows NT, Windows 2000 Server/2003 Server, XP, Vista & Windows 7 |
| Languages | C, C#, XAML, LINQ |
| Databases | SQL Server 2008, SQL Server Compact (SQLCE) 3.5 |
| Version Control Tools | Team Foundation Server (TFS), Visual Source Safe (VSS), SVN |
| IDE | Visual Studio.NET 2008/2010 |
| Frameworks | .NET Framework 2.0/3.0/3.5, WCF, WPF |
| Web Server | Internet Information Services (IIS) 6.0 |
| Cloud Platform | Windows Azure |
| Automation Tools | Pega Robotic Automation Studio (OpenSpan), RPA, RDA, Pega Robo Manager, Agile Desktop |

**Academics**

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| --- | --- | --- | --- |
| **Degree** | **University** | **Year of Passing** | **Percentage** |
| B.Tech | Jawaharlal Nehru Technological University | 2006 | 75% |

**Responsibilities and Achievements**

* Responsible for complete deliverables including design, execution and resource hiring.
* Determining the duties and responsibilities of individuals in a team.
* Analysing the individual performance of each team member and motivated them to perform even better.
* Organized training workshops to improve the performance of the members who were lagging behind in terms of performance.
* Prioritising important tasks and ensuring they get done first.
* Updating project status to the Onsite teams.
* Managing conflicts in the team.
* Inspired each and every team member to perform and produce their best.
* Analysed the assigned projects and distributed tasks to the members as per their area of expertise.
* Reported any problem or fault in the project to the project manager or supervisor.
* Offered solutions to the top management regarding project-related queries.

## Project Details

**Project 1**

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| Project | **Pega Robotic Automation (formerly known as OpenSpan)** |
| Client | Pegasystems |
| Duration | April 2017 – Till date |
| Role | Engineering Manager |
| Organization | Pegasystems |
| Environment | Windows OS |
| Languages, Technologies | C#, C++, C, Visual Studio 2015, Visual Studio Shell, WinDbg, Windows Internals, reverse engineering, RPA, RDA, Agile Desktop |

## Project Description

Pega® Robotic Automation (Pega) lets organizations easily automate repetitive tasks within their contact center or back office environments without re-engineering applications. Pega integrates with the user interfaces of existing applications to run automations which improve productivity in your enterprise.

The solution provides the broadest technology integration offering for: Windows thick client applications, VB, .NET, Powerbuilder, Java, Web, Mainframe, AS400, Web Services, Citrix Published Applications, Databases and Microsoft Office (Word, Excel and Outlook). As new technologies emerge, Pega continues to grow our expansive technology application integration capabilities.

Pega Robotic Automation consists of the Robotic Automation Runtime, the Robotic Automation Studio, and the Robotic Automation Management Console. Robotic Automation is integrated into the Pega 7 platform enabling customers to use robotic automation seamlessly in their Pega 7 applications and processes.

**Modules**

* Pega Robotic Automation **Runtime**: The Pega Robotic Automation Studio lets you define robotic automation flows using Studio’s visual drag and drop designer. In addition, with Studio’s automation recorder you can create automations by simply recording a process as you perform it on the desktop. Studio has the flexibility to handle application branching conditions where, based on the data entered, the application may present one of many resulting screens, incorporate decision logic, and call other automations. Studio enables the automation author to build automations that continue to work when network or application response times vary, mitigating the need to hard-code wait times or unnecessarily long pauses into the automation logic. You can reuse automations within the same solution and also import them into new solutions, eliminating the need for redundant development efforts.
* Pega Robotic Automation **Studio**: Pega Robotic Automation Runtime lets you deploy robots on the desktop which you can interact with. This is referred to as Robotic Desktop Automation (RDA). You can also deploy robots as unattended, standalone robots -- a true Robotic Process Automation (RPA) within a server environment. Pega provides you with the unique ability to deploy a blended solution that combines personal desktop robots and unattended server robots to provide a seamless front office to back office, straight through transaction.

**Contribution**

My contribution includes:

* Working on complete design, development and support needs.
* Continuous interaction with our US counterpart to know the requirements.
* Planning, estimating and tracking the work progress periodically.
* Mentoring, assigning tasks, continuous assessment and performance reviews
* Integrating all components and preparing a build for planned releases.
* Managing the offshore team members and bridge between onsite and offshore team.

**Project 2**

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| Project | **WinQuote+:** To generate pricing and quotation for industrial drives and motors |
| Client | TOSHIBA MITSUBISHI-ELECTRIC INDUSTRIAL SYSTEMS-CORPORATION |
| Duration | February 2012 – Till date |
| Role | Manager |
| Organization | TOSHIBA MITSUBISHI-ELECTRIC INDUSTRIAL SYSTEMS-CORPORATION |
| Environment | .NET Framework 3.5, Microsoft .Net 2010 Team Suite Edition, Windows 7 |
| Languages, Technologies & Database | C#, WCF, Windows Application (winforms), Microsoft Access, SQL Server 2008 |

## Project Description

Winquote+ Tool is a proprietary tool of TOSHIBA MITSUBISHI-ELECTRIC INDUSTRIAL SYSTEMS-CORPORATION developed for generating pricing and quotation for industrial drives and motors.

Winquote+ is developed to overcome the constraints of the old legacy excel based tools and to have a rich client interface which can hold a centralized repository of pricing information and can work in online offline state.

Developed on Microsoft platform this tool has a rich set of user controls which are very easy to use. With a glue of web service to the data layer, server side details have achieved a higher level of isolation from the tool thus helping us to achieve an n-tier model based system.

**Modules**

* WinQuote+ Client: User Interface to collect the data and specifications of the equipment required to execute the Job.
* Quotation Gen: Generates the Quotations based on the input data given in client. These quotations are in word format. Different predefined templates will be used for generating quotation letters based on the Job type. Sales engineers will submit these quotations to the customers.
* Synch Server: This module helps the user to synch his offline worked data to centralized server.
* Motor MDB Interface: This module helps the user to request quote from vendors and integrating the resultant quote in the final quotation letter. This layer is interface between WinQuote+ and Motor MDB web based quotation generating system.
* CRM interface: This module helps user to import and export jobs from CRM system in the enterprise.

## Contribution

My contribution includes:

* Working on complete design, development and support needs.
* Working on application unit testing, integration testing and fixing issues found.
* Continuous interaction with our US counterpart to know the requirements.
* Planning, estimating and tracking the work progress periodically.
* Mentoring, assigning tasks and monitoring the team members.
* Integrating all components and preparing a build for planned releases.
* Managing the offshore team members and bridge between onsite and offshore team.

**Project 3**

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| Project | **ExRAP**: Exchange Server Risk and Health Assessment Program |
| Client | Microsoft Corporation (Microsoft) |
| Duration | December 2008 – December 2011 |
| Role | Senior Software Engineer |
| Organization | Idea Entity Tech Solutions Pvt. Ltd. |
| Environment | .NET Framework 3.5, Microsoft .Net 2010 Team Suite Edition, Windows 7 |
| Languages, Technologies & Database | C#, WCF, WPF, InfoPath, LINQ, Windows Application (winforms) |

## Project Description

ExRAP runs on the Risk Assessment Program Integration Development (RAPID) framework, and it is a diagnostic tool used by Microsoft Premier Field Engineers to assess the functionality, performance, and configuration of Exchange Server environments upon client request. Microsoft has a huge number of Exchange Server premium users who can avoid sudden shutdown or outage of their Exchange Server environment by requesting a risk and health assessment from Microsoft. ExRAP is used to check client clusters for best performance configurations, and includes different test cases to test performance, security, configuration, access permissions and other needed tasks.

**Modules**

* ExRAP Client: Used to collect data from Exchange Server environments
* Report Generator: Enables the user to generate a report based on the data collected from the RAPID Client
* Test Case Result Viewer
* Issue Editor
* Settings Module & Help Module
* RAPID Web Site
* Business Intelligence Tools

## Contribution

My contribution includes:

* Working on ExRAP Client & Report Generator modules for fixing bugs/CR’s reported from Microsoft Team
* Application unit testing and fixing User Acceptance Testing (UAT) issues
* Interfacing with Premier Field Engineers to understand functionalities required in feature releases and implementing those functionalities
* Integrating all components

**Project 4**

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| Project Name | **RAPID** : Risk and Health Assessment Program Integration Development 2.0 |
| Client | Microsoft Corporation |
| Duration | December 2008 – December 2011 |
| Role | Senior Developer |
| Organization | Idea Entity Tech Solutions Pvt. Ltd. |
| Environment | .NET Framework 3.0, Microsoft .Net 2010 Team Suite Edition, Windows 7 |
| Languages, Technologies and Database | C#, WCF, WPF, InfoPath, LINQ, Windows Application (winforms) |

## Project Description

RAPID is used to check Microsoft Premier client clusters for their best performance. RAPID assesses the functionality, performance, and configuration of products, and monitors products upon client request. RAPs (Risk and Health Assessment programs) are individual modules that assess Microsoft server products as a part of the RAPID framework. The modules have different test cases to test performance, security, configuration, access permissions and other needed tasks.

**Modules**

* Rapid Client: Used to collect data from various server environments
* Report Generator: Enables the user to generate a report based on the data collected from the RAPID client
* Test Case Result Viewer
* Issue Editor
* Settings Module & Help Module
* RAPID Web Site
* Business Intelligence Tools
* RAPs

## Contribution

My contribution includes:

* Working on RAPID Client and Report Generator modules for fixing bugs reported from Microsoft Team
* Adding new functional features and fixing bugs in Exchange RAP (ExRAP)
* Interfacing with Premier Field Engineers to understand functionalities required in feature releases and implementing those functionalities

**Project 5**

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| Project Name | **CASSIS** : Coil And Slab Stock Information System |
| Client | Arcelor (Steel producer with plants in Europe and Latin America) |
| Duration | January 2008 – December 2008 |
| Role | Developer |
| Organization | SoftSol India Ltd. India |
| Team Size | 25 |
| Environment | .NET Framework 3.0, Visual Studio 2005, IIS 6.0, Windows XP |
| Languages, Technologies and Database | C#, Windows Application (winforms), WCF, Windows Workflow Foundation (WF), WPF, Websphere MQ, Oracle9i |

## Project Description

Arcelor Bremen’s Coil and Slab Stock Information System (CASSIS) has three modules: Desktop, PDA and Crane. Desktop and Crane modules are Windows-based applications, PDA is Web application. CASSIS is useful in production for the following purposes:

* Book the movement of material in stock, administer transportation orders and several stocks, as well as controlling the main material stream
* Correct stock and specify means of transport
* Support the crane driver with its work: crane positions and stock areas are indicated
* Display orders for transportation and order processing is controlled
* Lock Transporters and lock a stock area
* Automated booking of material movements based on configuration
* Transferring master data from a special master maintenance schema to the production environment, respectively the test environment
* Run the regression tests
* Delete terminated material and outdated log entries, and examine and correct CASSIS data
* Request the existence of stock areas or orders for transportation

This application is integrated with Websphere MQ, COM Port, Infrastructure Components, SWEPPS+ components, and other UDS Applications.

## Contribution

My contribution includes:

* Server side coding to implement business logic
* Data inserting, updating and retrieving from database by using ADO.NET
* Distributing components as Client and Server and applying WCF between the components for communication
* Integrating all components and external integration to Websphere MQ and other UDS applications

**Project 6**

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| Project Name | **SWEPPS+** |
| Client | Arcelor (Steel producer with plants in Europe and Latin America) |
| Duration | January 2007 – March 2008 |
| Role | Developer |
| Organization | SoftSol India Ltd. India |
| Team Size | 30 |
| Environment | .NET Framework 3.0, Visual Studio 2005, IIS 6.0, Windows XP |
| Languages, Technologies and Database | C#, Windows Application (winforms), WCF, Windows Workflow Foundation (WWF), Windows Presentation Foundation (WPF), Websphere MQ, Oracle9i |

## Project Description

Stahlwerke Bremen Production Planning and Control System (SWEPPS) is Arcelor Bremen’s production planning and control system. It uses some other basic services (Info-Services, Batch-Manager) of the Arcelor Bremen UDS application landscape. SWEPPS, together with these services, is referred to as “SWEPPS+”.

This project is useful in production for the following purposes:

* Material booking
* Provides information about booked materials
* Broadcasts booking information to other systems
* Useful to SWEPPS+ administrators and power users to mainly enter new booking messages, change booked messages, correct denied messages and book them again, and for other business tasks
* Used to enter physical treatment information about hot rolling coil
* To find and store weight of different types of materials by using COM Port
* To print labels based on different types of international standard formats
* To store all shipping and packing information of material
* Support online remote data entry through PDAs

This application is integrated with Websphere MQ, COM Port, Infrastructure Components, and other UDS Applications.

## Contribution

My contribution includes:

* Coding using C#
* Distributing components as Client and Server and applying WCF between the components for communication
* Integrating all components and external integration to Websphere MQ and other UDS Applications

**Project 7**

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| Project Name | Bug Tracking System |
| Client | Soft Sol India Ltd. |
| Duration | October 2006 – January 2007 |
| Role | Developer |
| Organization | Soft Sol India Ltd. India |
| Team Size | 6 |
| Environment | ASP.NET, C#, HTML, JavaScript, SQL Server, IIS 6.0, Windows XP |

## Project Description

* Bug Tracking System is a web-based defect tracking software developed using .NET and Oracle as backend
* It is used to document, manage and assign bugs and tasks and empowers a user to organize bugs, defects or issues raised in different projects
* Enables user to manage project's bugs and defects more efficiently
* Better response time to users and avoids task redundancy
* Helps development and testing team by increasing their control over system development

## Contribution

As a Developer, I was responsible for:

* Design
* Development using ASP.NET with C# and JavaScript
* Involved in database connectivity by using ADO.Net
* Testing: unit testing and integration testing

**Project 8**

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| Project Name | Inventory Control Management |
| Client | Collectorate of Kammam District |
| Duration | November 2005 – March 2006 |
| Role | Team Member |
| Organization | Institute for Electronic Governance |
| Team Size | 5 |
| Environment | ASP.NET, C#, ADO.NET, HTML, SQL Server, IIS 6.0, Windows XP |

## Project Description

##### The main aim of this project is to reduce the manual work in Warehouse Management

##### Generates reports automatically

##### Send an alert to Management when stock is below the minimum level

##### Provides services for Customer, Vendor, Warehouse Manager, Store Keeper

## Contribution

##### As a Team Member, I was responsible for:

##### Design

##### Development using ASP.NET with C# and JavaScript

##### Involved in database connectivity by using ADO.Net

##### Testing: unit testing and integration testing

## Personal Details

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