

Bharat Bhushan Joshi

Tech Lead/Agile Practitioner

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Pyramid IT Consulting

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Full-stack software professional and problem solver experienced in all phases of software with an in-depth knowledge of architecture, agile methodologies, design patterns and object-oriented principles. Passionate about building applications from the ground up, enhancing existing systems for sustainability or meeting business needs through integration purposes.

Having **15+** years of experience in developing Web Applications using **Angular (1.5/2/8), HTML (4/5), CSS (2/3), JavaScript, TypeScript, Node.js, Express JS, jQuery, AJAX, XML, Bootstrap, JSON, C#, ASP.Net/MVC.**

Have god exposure in ESRI **ArcGIS Server 10.1, ArcMap 10.1, python, SQL Server spatial, Google Maps JavaScript Web API, ESRI JavaScript API and web- GIS technologies.**

Well versed in managing an Agile (Scrum) Development process in client/off-shore model, while closely managing estimates, capacity, project profitability and quality along with strong Modelling & Architecting skills in Cloud based technologies.

Professional Summary

- Experience in architecting and implementing highly scalable, high throughput web applications and backend systems.
- Managed market analytics for several pharmaceutical clients including Global Top 5 pharmaceutical.
- Expertise in designing and developing applications using Microsoft .NET/GIS platform (8 years).
- Strong fundamentals in application design patterns, OO design patterns, data structures and algorithms
- Over 14+ years of experience in software design, developing applications using Microsoft/Angular applications.
- Regularly interacted with clients & developed strong client relations while demonstrating high level of commitment to client success
- Excellent skills in problem-solving, organizational and team building, managing multiple tasks at a time, leading the teams and the ability to cope with heavy workloads. Led a team of 25+ GIS/BA/QA professionals.

Project Management Skills

- Cross-functional project management concepts, methods, and practices
- Information technology applications, processes, software and equipment
- Business systems design and business process management
- Testing techniques and methodologies
- Skilled communicator able to create open lines of communication between stakeholders, team members and customers.
- Efficient leader able to inspire and motivate staff to work together towards project oriented goals

Technical Skillset

1. Open Source

- ❖ Angular 2.0/4.0/8.0
- ❖ Google Analytics/Firebase Analytics/Google Tag Manager

2. Microsoft

- ❖ Framework: ASP.NET MVC 4.5/5.0, ASP.NET 2.0
- ❖ Service: WCF 3.5
- ❖ Programming languages: C#, VB.NET, VB 6.0
- ❖ Design Tools: Microsoft Visio
- ❖ Scripting: JavaScript/Jscript, JQuery

3. GIS

- ❖ ArcGIS Server 9.3/10.1/10.3
- ❖ ArcGIS Desktop 9.3/10.1

4. Cloud

- ❖ Azure Devops CI/CD.
- ❖ Azure Server less (Azure Function)

Organizational Experience

Company	From	To
Pyramid IT Consulting	May-17	Till Now
MarketRX/ Cognizant	Aug-06	May-17
Saigun Technologies	Feb-06	Aug-06
Triiviz Software Solution	Nov-04	Jan-06

Education

Class	Year	%
10 th	1994	45
12 th	1997	46
B.COM	2001	52
M.Com	2001-03	52
BCA	2008	61

Other than above mentioned I had done Advance Diploma from NIIT.

Achievements

- Cognizant Innovation Awards 2009/10 - Winning team member of best project among 284 projects
- Designed and developed various small utility /applications for facilitating day to day work and enhancing efficiency and performance e.g. "CSV Convertor" for creating CSV files on the basis of a query passed to it. These CSV are used as input for MXD files.
- Automated Layer creation process through python scripts. for every assignment, it has saved around 17 man days effort with around saving of \$7,500 per quarter per assignment
- Twitter Analysis With Python & Google Map pull data from twitter and displayed in map

- Loaded 4.5 million records from DB and converted them into different projections and re-stored into DB with the help of Python, earlier that process used to take 3 days but with the help of python, processing time was reduced to 8 hours.

Project Description-:

1. Client Projects

1.1 Intercambio

Description :

The proposed application platform "InterCambio" aims at providing money transfer services originating from USA to the South American countries. InterCambio express will assist the user to transfer money using its desktop, mobile and tablet application. Money transfer could be done through various modes so does the money receiving. User has the option to choose from various vendors providing varying exchange rates and offers. The application also provides facilities like transaction history, agent/ vendor locator, profile management, loyalty program, tutorials, beneficiary management etc. Pyramid is entrusted in creating the client application for all the three platforms i.e. web, mobile and tablet.

Tools Used: Angular 2.0/4.5, HTML5, CSS, WCF

Role

- Deliver a complete front end application with responsive UI compatible for mobile and hand held devices
- Design overall architecture of the web application.
- Develop different module of application.
- Coordinating the workflow between the graphic designer and team.
- Cooperating with the back-end developer in the process of building the RESTful and SOAP API.
- Have implement **Google Analytics & Google Tag Manager** to track site and client customized metrics.
- Have Implemented **ThreatMetrix and Iovation** for profiling and Fraud detection.
- Established and defined customer requirements; translate those into potential product improvements designs

1.2 Kaviva

Kaviva is an Omni channel communications and health technology company delivering patented, HIPAA-secure platform solutions to organizations seeking to transform health, outcomes & engagement. Kaviva's tools allow customers to effectively communicate and reach nearly 100% of their population, reduce strain on resources, control healthcare expenses and boost employee performance.

Tools Used: Angular 2.0/4.5, HTML5, CSS, GULP, Sendgrid
Role

- Gather and refine specifications and requirements based on technical needs
- Develop new user-facing features and deploy web solution.
- Collaborate with other team members and stakeholders
- Fix bugs, troubleshoot and resolve problems.
- Assume ownership of code throughout development, staging, testing and production.

3 Anglian Water

Tools Used: Angular JS, Cordova, Map guide, Open-Layer, Jersy

Description :

- Anglian Water Services Ltd is a private limited company that provides the majority Anglian Water branded services and utilities and is registered in England and Wales. Anglian is looking for a hybrid solution which can
- View AW Main and Sewerage network data relevant to work order
- Exchange x / y coordinates to maps application
- Query and display network element info around the location on the map
- Display list of map layers grouped by network type

- Capture redlines, associate attributes to redline and share redlines to external system
- Capture snapshot of network on mobile
- Application needs to work on Tablets

Role



- had develop a hybrid app, with the help of Cordova, Angular JS , Map Guide
- Need to convert web to android app with the help of Cordova
- Develop Jersey Based service in Java, to read red line feature in map and export it into XML files.
- Collaborate with cross-functional teams to define, design, and ship new features

1.2 TGS:

Tools Used: ArcGIS Server 10.1, Angular JS, SQL Server, WCF, Python, ARCGIS Java script

Description :

TGS provides multi-client geoscience data to Oil and Gas Exploration and Production companies worldwide through four product lines - Multi-client geophysical data, multi-client geological data, imaging services

Roles & Responsibilities:

- Established and defined customer requirements; translate those into potential product improvements designs
- Automated client Data extent transformation process from NAD84 to WGS84, earlier this was being done through FME.
- Converted and automated the process through Python. This process converts **5 million** records in one go
- On Demand Clustering to **visualize 5 million** records in Map with the help of **Angular** and ARCGIS Java script APIs
- Preparing several kinds of Geographic data , for displaying Country, Basin level data
- Created/tracked (using MPP) the project schedule by identifying tasks, resources, effort and determined dependencies.
- Implemented Service Oriented Architecture (SOA) using Rest Services (web services, JSON)
- Publishing several kind of Map services (Feature, Dynamic etc...) and accessing them with the help of ANGULAR in front end.

1.3 Client-Elli Lilly USA

Tool Used: ArcGIS Server 10.1, ArcGIS JavaScript API, MVC 4.0 framework, C#, SQL Server, Arc SDE, JQuery

Description :

An On-Demand intuitive map based solution for data visualization, information management, customer profiling, targeting, decision making and analytics with a strong focus on collaboration, configuration and localization that adds location-based insights to your existing business data”

There is a growing realization among leading organizations that by adding geographic location to Business data and mapping them can dramatically transform their commercial operations and help them capitalize on real-time market opportunities.

Location Analytics is equipped with specific capabilities like

- Mapping visualization: Point, color-coded, clustered, heat maps
- Spatial Analytics: Bidirectional interaction (Relations), map filtering, proximity, custom area and advanced analysis tools (scenario modeling etc.)
- Geographic information enrichment: Base Maps, imagery, demographics, consumer concentration data
- Intuitive mapping, thematic reports and analytical tools

Roles & Responsibilities:

- Requirements gathering and its understanding, high level and low level design documents
- Requirement analysis, design, development and unit testing
- Process modelling using UML, Flow charts, sequence diagrams, activity diagrams and Use Cases with extensive use of Visio to create mock ups
- Spatial Analytics in maps based dashboard running on SQL SDE spatial data mart.
- Communication with business and interpreting business requirements to technical requirements and managing different stakeholders.
- Responsible for setting Innovation & Technology roadmap for team, client and other project stakeholders.
- Liaising between onshore and offshore teams to close requirements gaps and ensure clarity of requirements.
- Responsible for project delivery along with Project Profitability, Auditing, forecasting, SOW and
- Code troubleshooting, R&D and mentoring juniors and leading the team for technical deliverables

Internal/Self Innovation/POC

Roles & Responsibilities:- Self initiative project

Illustrative Project 3:

Client: iAlign Solutions _Layer Automation (Python)

Tools Used: Python 2.5, ArcGIS API(arcpy),Python Oracle Library(CX_Oracle)

IAlign tool is a product solution of Cognizant which has been implemented for 5/6 clients. It provides a Web-based analytical solution for sales operations managers and medical representatives to perform their daily activities like call planning, reconciling of sales data from field operations teams etc.

This tool is heavily dependent upon maps for tweaking user's geography with the help of Maps. With every data refresh of the tool, we need to create a map for different sales team manually (On an average 30 for every implementation). Major problem with this approach is:

- ❖ It used to take 4-5 hours to create and configure map for one alignment
- ❖ Sequential maps creation process
- ❖ Manual creation of maps
- ❖ Time-consuming in case we need to create maps for 10 -20 teams at a time

Bharat automated the "Map Creation" process within the layer creation process using Python scripts.

As a result of the automation, there was a significant reduction in the time taken for creating Map services. Following are the results of a comparative study using Python script versus Manual Process for AZ-US:

- ❖ **Reduced Manual Effort:** Before implementation of the python script, the process was done manually i.e. map creation process was done by ArcGIS tools ArcMap/Arc Catalog. Post implementation, the process takes minimal effort i.e. no need to use ArcGIS tools.
- ❖ **Reduced Cycle Time:** Before implementation of the python script, process took minimum four hours to complete map for one alignment. Post implementation, process takes around 45 - 60 min to complete one map.
- ❖ **Concurrent use of all GIS servers:** It can easily be configured and can be run on multiple servers simultaneously.
- ❖ **Productivity Increase:** With the concurrent use of GIS servers, 6-8 maps can be created at a time.
- ❖ **To summarize,** for each assignment, around 17-man day's effort has been saved with around **\$5,000.00** cost savings.

Personal Details:

Age: 40

Gender: Male

Marital Status: Married

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