

Bharat Bhushan Joshi

Technical Lead/Agile Practitioner /Full Stack devolper

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Pyramid IT Consulting

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Bharat has extensive hands-on experience 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.

He is experienced in managing an Agile (Scrum) Development process in client/off-shore model, while closely managing estimates, capacity, project profitability and quality along with strong Modeling & Architect skills in Cloud based technologies.

Professional Summary

- Managed engagements and projects in the field of sales force sizing and alignment
- Managed market analytic for several pharmaceutical clients including Global Top 5 pharmaceutical.
- Expertise in designing and developing applications using Microsoft .NET/GIS platform (8 years).
- Over 13+ years of experience in software design, developing applications using the **.Net Framework, VB.NET, C#.NET, ASP.NET, ADO.NET**
- Well versed with multiple versions of **Python** and fully conversant with their differences and features
- 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.
- Experience in implementing projects using **MVC** Design Patterns & Object Orient Techniques

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. Microsoft

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

2. GIS

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

3. Open Source

- ❖ AngularJS
- ❖ Angular 2.0/4.5/7.0
- ❖ Gulp

Organizational Experience

- **Pyramid IT Consulting from May 2017 – Present**
- **Cognizant Technology Solutions Aug 2006 - May 2017**
- **Saigun Software Solution Feb 2006 to August 2006**

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-:

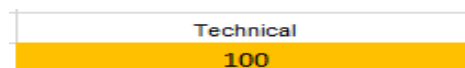
1. Client Projects

1.1 GP CSS is

Tools Used: Angular JS 7.0,WCF,SQL Server

With the help of this tool GP can analyze his sales in an interactive way and plan future sales planning. It also provides system user(Logger and Forester) to track their assignment/planned activity. In addition there are several other reports which can analyze activity of GP and other actors in system

Role



- Established and defined customer requirements; translate those into potential product improvements designs
- Design basic framework/Architecture for system
- Process setup and AGILE implementation. Works as Scrum master.
- Setup JIRA for project.
- Develop different modules e.g. Reporting, User
- Doing R&D and implementing new approaches technologies e.g. SCSS
- Collaborate with cross-functional teams to define, design, and ship new features.

1.2 ICE is a PayPal services which help to transfer money across nations and establish in USA.

Tools Used: Angular JS 2.0,WCF,SQL Server, Threat matrix/Iovation

With the help of this tool we help user primarily to transfer Money to across countries(As off now it's limited to Mexico) and it can also help user to check its transaction history, add beneficiaries, adding debit and credit card and couple of more useful feature e.g. Super send. Other important feature of this service is it's a bilingual application. Works on Spanish and US-English and develop in a way without changing any code can work in any other language.

Role



- Established and defined customer requirements; translate those into potential product improvements designs.
- Implement Threat matrix and Iovation.
- Implement multi lingual support for applications.
- Design basic framework/Architecture for system
- Process setup and AGILE implementation. Works as Scrum master.
- Setup JIRA for project.
- Develop different modules e.g. Reporting, User
- Doing R&D and implementing new approaches technologies e.g. SCSS
- Collaborate with cross-functional teams to define, design, and ship new features.

1.3 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 kinds of Map services (Feature, Dynamic etc...) and accessing them with the help of ANGULAR in front end.

2.2 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 modeling 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

Tools Used: Python, Django, Tweepy, geo Json, Geopy, Database –Postgree
Description :

- Twitter data is a rich source of data that can be used for capturing information about any Topic imaginable.
- Get detailed insights into who your audience is
- This data can be used in different use cases such as finding trends related to a specific keyword, measuring brand sentiment and gathering feedback about new products and services.

Application Overview

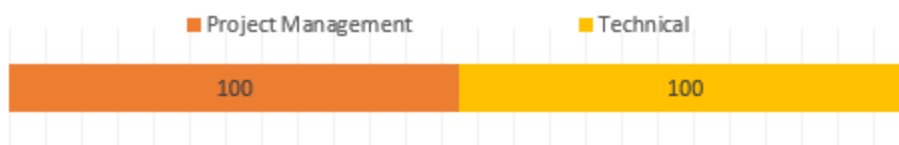
- ❖ With the help of Python & Django, we are able to pull data from twitter and other social sites, we can store data on any DB, flat file and can do the required analysis based on our needs.

- ❖ In current example data was pulled on the basis of #tag and shown on map with the help of Google APIs which helped us to identify user location

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:

Gender:	Male
Marital Status:	Married
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