

Ather Ashraf

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SUMMARY

- Worked in different capacities in large organizations
- Experience of project management of different GIS projects of Engineering and IT industry
- Wide experience of handling engineering projects like piping, hydrology, transportation etc.
- Experience of cadastral, parcel and landuse / landcover mapping
- Experience of working in open source (especially in java) as well as commercial projects.
- Experience of GIS Requirement engineering and development of SRS.
- GIS development in ArcObjects COM programming using .Net, geotools using Java.
- Web GIS development in geoserver and mapguide using php, jsp and java servlets.
- Digital image pre/post processing using high resolution, multi-spectral imagery.
- Experience of schema design and data handling in Oracle, SQL Server, MySQL and Postgres (PostGIS).
- Experience of working in mobile technology especially in Symbian, Android and J2ME

EDUCATION

Degree	Year	Name of Institue	Division/CGP
MS in GIS	2003 – 2005	Punjab University Lahore	3.6
MS in CS	2001 – 2003	UCP Lahore	4.0
B.Sc. Engg.(Civil)	1995 – 2000	UET Lahore	1 st Division

SPECIALIZATION

- GIS Engineer/Developer
- Digital Image processing
- Database Developer/Administration
- CAD Analyst/Developer

COMPUTING SKILLS

Languages	.Net(VB and C#), Java, Servlets, JSP, PHP and Javascript
Operating Systems	Linux and Microsoft Windows 2000 server/XP/Window 7
Tools & Technologies	ArcGIS, ArcObject, Autodesk Map, ERDAS, ERMapper, Crystal Report, Mapguide, Arcserver, GeoServer, MapServer, Geotool, PDS, INTTools, MS Project
Databases	Oracle(Oracle spatial), SQL Server, ArcSDE, MySQL, Postgres (PostGIS)
Mobile Technology	Symbian, Android and J2ME

Projects:

1. Punjab GIS Portal:

Developed a Punjab GIS Portal with a team of 8 GIS analysts. This project is currently in its implementation phase. So far data layers of Lahore and Sahiwal have been prepared.

Tool/Technologies: Oracle 10g, mapguide Opensource, fusion, Tomcat, Apache

2. Spatial Education Information System (SEMIS)

Developed an enterprise spatial education information system for government of Pakistan. The project was funded by GTZ. The application provide detail information(spatial and attribute) about the schools at district level. Provide number of spatial and attribute analysis in the system.

Tool/Technologies: PHP, MySQL, Joomla, geoserver, OpenLayers, JxLib and Tomcat servlets

3. Mobile Backup Application

Mobileback application is developed for storing the content of mobile like contacts, SMS, MMS, calenders, images and videos. User can view its data on the web and can synchronize the data with its application. OMA standards were used for the application.

Tool/Technologies: Symbian, J2ME, PHP, MySQL and Joomla.

4. Mobile Geospatial Survey Application

This application is used to collect spatial data of different shops having PEPSI products. The application uses GPS of the mobile to get the spatial location of the outlet and Picture is linked with its lat long. The information can be send online on the server.

Tool/Technologies: Symbian, J2ME, Java servlets and MySQL.

5. Excise & Taxation Spatial System Development:

As a GIS development Specialist, developed a UIPT spatial database. Integrated model town data with E&T main database. Currently working on 3 more circles and also integrating their billing system..

Tool/Technologies: Oracle 10g, mapguide Opensource, fusion, Tomcat, Apache

6. Landfolio Software:

Developed a GIS module of landfolio software (www.stewardlandolio.com). This software was designed for Stewart International (provides global land solutions). The software has been deployed in *Antigua, Beliz and Bermuda*. The front end of the software is developed in .Net 2005 using ESRI Arc Engine, the back end of the software is in SQL Server 2005. ArcSDE is used to enable spatial capabilities in SQL Server.

Tool/Technologies: SQL Server, VB.Net, ArcServer, ArcEngine

7. Project title: Route planning for GAS Pipe line from OGC Plant (Kunner) to SSGCL tie point (Hyderabad)

In this capacity I have worked as a consultant with German consultant for planning route of Gas pipe line. This route is from OGC refine plant in Kunner to SSGCL tie point in Hyderabad. The major tasks were image processing, developing DEM and DTM and finally a 3-D movie show the route.

Tool/Technologies: ERMapper 7.1, ArcGIS 9.2, Global Mapper 8.0

8. Project title: Routes planning for railway line from Havailian to Khunjarab (china border)

In this capacity I worked as a local consultant with Germans consultant, for planning routes for Railway line from Havelian to Khunjarab. This route is along the silk road of Pakistan.

The major task were image processing (0.6 m resolution), developing Digital terrain model, contour generation, hydrological modeling and survey.

Tool/Technologies: ERMapper 7.1, ArcGIS 9.2, Global Mapper 8.0

9. Project Title: Kalabagh Dam Resettlement Study

In this capacity I worked as a team lead on Kalabagh Dam resettlement study. Statistics were calculated of different land cover and land use types like cultivated area, barren area, river area, houses and trees. The statistics were generated using digital image classification on Quick bird imagery (resolution: 0.6m). These statistics were used for cost estimation of resettlements.

Tools/Technologies: ERDAS 8.x, Matlab 7, ArcGIS 9.x

10. Project Title: Lahore Master Plan

In this project I have to convert and adjust data of Lahore master plan from CAD to GIS. The volume of data was huge and there were inconsistencies in the data. It was not possible to manually check and correct. I developed specialized module that

- Checked the consistency of data.
- Pointed out inconsistency and anomalies
- Suggested remedies.
- Applied correction either suggest by the application or by user.

After correcting data layouts were prepared showing

- Current shape of Lahore and
- Planned shape of Lahore up to 2025.

Tools/Technologies: ArcObject and ArcGIS 9.x

11. Project Title: Flood Plane Mapping

In this capacity I developed flood prediction maps of river Jehlum and Indus (From Taunsa to Guddu Barrage). These maps were developed using satellite imagery of SPOT (Resolution: 2.5m) and SRTM (Shuttle Radar Topography mission) (Resolution: 3 arc sec) data. Satellite imagery along with Survey of Pakistan's Topographic sheet was used to identify different features like Bund and Spars along the river bank. SRTM data was first denoised and then used to develop a DTM (Digital Terrain Model). With the help of DTM contours were generated at 0.5m, 1 m and 2.5 m interval.

Tools/Technologies: ArcGIS 9.x

12. Project Title: Watershed modelling of Ghizar

Developed a watershed model of Ghizar. To develop this model I have used SRTM data and low resolution imagery of landsat (15m resolution)

Tool/Technologies: ERMapper, GlobalMapper, ArcGIS

13. Project Title: LRMIS (Land Record Management Information System)

The application has desktop and web interface for varying needs. This application will automate the process of Land Record Management of Pakistan. My responsibilities included:

- Integration of GIS module; Spatial data management & storage
- As a technical resource, contributed and interacted with process reengineering team for making Land Record Management paperless.
- Define procedures to collect, store and convert legacy spatial data (maps/sketches termed as "SHAJRA PARJA") in spatial database.
- Enable use of new technologies and techniques for accurate measurement of land. And developing maps based on high resolution satellite imagery for base mapping. Doing pre & post processing on those maps and storing them in spatial database.
- Designing workflows involved in the process of land transactions.

- Database Design.
- Develop stored procedures for routines required at database server side.

Tools/Technologies: Mapguide, Geotool, Oracle Database Server

14. Project Title: WCB Tax Mapping

Worked as a team lead in developing a GIS enabled tax mapping solution. The application includes geo-coding Walton Cantonment Board area. The software also integrates GIS system with Tax database developed in Oracle. Application enabled WCB to view reports like Tax, Area and lessee details.

Tools/Technologies: ArcObject, ArcGIS Engine 9.x, Visual Basic 6, Crystal Report 8 and ErMapper 7

15. Project Title: GIS R & D

In the above-mentioned capacity, I was responsible to explore and devise possible solutions for enabling GIS in different applications. This includes research on GIS packages for having capabilities of spatial analysis and management of spatial data. The research's purpose was to first have a bird eye view of available technologies and then focus on the technologies fulfilling criterions. Following is a brief description of work done:

- Calibrate different GIS packages in terms of available functions, integration capability with existing applications, spatial data storage mechanism, licensing cost, development & adaptability cost, GIS tool maturity, OGC (Open Geospatial Consortium) standards compliance and deployment scenarios.
- Developed a sample thick client application using ArcGIS engine & GeoTools toolkit.
- A thin client application was developed using ArcIMS & MapGuide opensource.

After completion of basic research, Netsol was able to devise a GIS enabled solution, with different architectures and have ample knowledge of available technologies for spatial data management, spatial analysis & presentation.

Tools/Technologies: Oracle Spatial/Locator, Oracle Database Server, PostGIS, MapGuide Open Source, uDig, OGR, GDAL, Google Map Api's, GML, ArcGIS Engine, ArcIMS, ArcSDE, WFS (web feature service), WMS (web mapping service).

WORK EXPERIENCE:**PUCIT Punjab University**

I am working in Punjab University as a Assistant Professor in GIS Center. I am teaching Geo-statistics, GIS Programming, Spatial Databases, Web GIS and Geo-spatial System design. I am working there from August 2007 to date

Urban Unit:

Urban Unit is a Project management unit of Planning and Developmnet department. They are working on policy making for urban development. For policy making they are using GIS as a decision making tool. For this they are developing a GIS Portal. I am working there as a GIS consultant and developing a Punjab GIS Portal. My responsibilities also include development of a spatial database for Excise & Taxation Department, Government of Punjab.

CTO 24/7 Pakistan Pvt. Ltd.

CTO 24/7 is global solutions provider using a unique combination of capabilities and services to meet the information technology needs of the world's best clients. Established in 1997. I have worked there as a GIS Consultant and developed a Landfolio system which has been deployed on three countries Antigua, Beliz and Bermuda

ILF Pakistan Pvt Ltd.

ILF Consulting Engineers (ILF) is an international engineering and consulting firm. ILF has main offices in Innsbruck and Munich, and more than thirty subsidiary offices worldwide. A permanent staff of over 1300 are employed to develop and execute project solutions for international customers. I have worked there as GIS consultant. Till now I have worked on China Pakistan railway line project and OGDC gas pipeline project.

NetSol Technologies

Net sol is one of the largest IT Company in Pakistan. It is the only company in Pakistan which is at CMMI level 5. I worked here as a GIS developer. My designation was Senior Software Engineer. I worked here from *July 2006 to August 2007*.

Electronic Government Directorate (EGD)

EGD was responsible for the provision of E-Services at Capital development authority, Islamabad. E-Services include GIS, property management system, ERP solution, portal development and Networking. I worked here as a GIS specialist from *March 2006 to June 2006*. My responsibility included designing of GIS setup in CDA and develop a complete enterprise GIS solution within the organization.

NESPAK pvt. Ltd.

NESPAK is one of the largest engineering consultant company in Pakistan. I worked here as a GIS Engineer from *September 2004 to Feb 2006*. I also worked as a team lead on the Kalabagh Dam project and WCB tax mapping.

JGC-DESCON (J-Tech) Pvt Ltd.

J-Tech is a joint venture of JGC (Japan) and Descon(Pakistan). Currently it is known as JGC-DESCON. I worked here as CAD Analyst from *December 2003 to August 2004*. My designation was Asst. Software Engineer. My responsibility included customizing CAD solutions and initiating and maintaining projects in Databases and CAD.

A.H. Trader

FONGAS (Fauji Foundation subsidiary) is a LPG gas storage and distribution plant at Kot Addu near PARCO. My company was involved in the Installation of Tube well, laying of GAS pipe line (from PARCO to FONGAS plant) and lying of water supply line and fire fighting line within the plant. I worked here as a site engineer from *April 2000 to December 2002* My responsibilities included

- Manage, handle and communicate with a team of technical staff and sub contractor
- Supervising laying of gas pipe lines and Installation of Tube well
- Certifying and complying with standards of FONGAS (Fauji Foundation)
- Maintaining engineering quality standard for materials and work
- Prepared BOQ (Bill of Quantity).

MEMBERSHIP

- Member, Pakistan Engineering Council

REFERENCES

- Available on demand