

# AMIT JAIN

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## QUALIFICATIONS

Highly inquisitive, creative and resourceful, excellent skills in communication and collaboration, skilled in DotNet Technology, GIS tools, Open web map services and waste management and excited by the challenge of research.

## ACCOMPLISHMENTS

Research paper entitled "Computer Model for Municipal waste treatment Technologies in developing countries" has been published in **Environment Science and Technology**. A software model based on GIS and cost minimization is developed that identifies the low cost alternatives for managing waste. The model was applied to the Indian cities divided on basis of population and validated with existing operating waste treatment plants.

**Visiting Faculty** to Department of Environment, Delhi University. Delivered lectures on modelling techniques using GIS.

## EDUCATION

**2007: Pursuing PhD** (Environment Engineering) Topic: Environmental modeling in urban areas using Google Map Services and ArcGIS. Thapar University, Patiala

**2002-2004:** M.E. (Environment Engineering) Thapar Institute of Engineering & Technology, Patiala.

**1996-2000:** B.E. (Chemical Engineering) Thapar Institute of Engineering & Technology, Patiala.

(Thapar Institute has been ranked as No. 9 in the Dataquest-IDC-NASSCOM Survey: India's Best T-Schools 2004-2005 [http://www.dqindia.com/content/top\\_stories/2005/105052101.asp](http://www.dqindia.com/content/top_stories/2005/105052101.asp))  
One year Diploma in Computer Science from International School of Computer Technology (A division of IIS InfoTech Ltd.)

## WORK EXPERIENCE

Currently working as Technical Specialist in GIS domain with **Infosys Technologies** (www.infosys.com). Infosys is the 27th valued company at NASDAQ and a top Indian software firm. I am working project that involves validation of Geo-Databases for Street level data provided by client using ArcGIS products. I am leading a team of GIS Engineers and have extensively worked on GIS software like Arc Info 9.2, Arc IMS, Arc SDE, Oracle 9i and 10g, Oracle Spatial and GeoMedia Professional and GRASS 6.3.

**Google Map Projects:** It involves integration of Open Google Map API into a website and perform different operations on it. Similar work can be carried out on other Map APIs like MapQuest API etc. No special development tools are required in order to take advantage of Google's mapping API all that is necessary is a text editor, Web browser, and a public Web

server from which the scripts can be served. Following tasks were carried out using the Google Map APIs

- I have used many of the exposed classes and associated methods with it like GMap, GMarker, GPolyline, GIcon, GEvent, GXmlHttp, GXml, GXslt.
- I also made some sample web applications based on the above mentioned classes and methods. E.g. A website is developed which can track different tourist sites in India.
- I also made use of some newly exposed Google classes like Traffic Overlays. Using the Traffic overlay classes the streets can be colored in different colors. This website can help in traffic management of a city.
- Ajax application is developed using JavaScript, XML and partial rendering. This decreases response time for user, increases instructiveness and load on the server is decreased.

I have also implemented solutions in following areas:

- . .Net Web Application for the retail client, USA.
- . Database handling/Linkage for various GIS Software
- . Development of a Tool and Intranet Portal (ASP.NET Web Application utilizing ASP.NET Web Services, ADO.NET with MS SQL Server and VB.NET)

I have experience in complex n-tier application development and testing. This includes User Interface, Business Logic and Database layers.

I am well versed with PLSQL, Oracle 9i, C#, VB.Net, ASP.Net, C++, Oracle, .Net Compact Framework. I have also worked extensively on Arc Info 9.2, Arc IMS, Arc SDE and also on Software modeling techniques mainly in VB.Net and Oracle 9i

I have proven skills in analysis, design, development and testing of applications with complex business logic and large volumes. My role includes:

- . Architecture and Data Design of the project.
- . Planning, organizing and implementing a GIS project independently
- . Module Leader for a team size of 10 people.
- . Requirement Analysis, High Level and Low Level Design.
- . Client Interactions, communication and status reporting.
- . Experience in various software engineering life cycle methodologies.
- . Experience in developing products and solutions based on the Microsoft technologies.

I have worked with an Environment Consultancy firm “**Environment Care Services**” as an **GIS Design Engineer** from 07/2000 to 12/2002

Responsibility

- I. Implementation of Computer Modeling techniques using Arc GIS and GeoMedia Professional and also using C++ language for waste management models.
- II. Process design of pollution control systems.

### III. Process auditing from environmental angle.

#### **PUBLICATIONS AS FIRST AUTHOR in Peer Reviewed Journals**

**Jain A**, Khanna S and Kaur H (2005). A Computer Model for Municipal waste treatment in developing countries. In: Environment Science and Technology 39(10) pp 3732-3735 ACS Publications. ([http://pubs3.acs.org/acs/journals/doilookup?in\\_doi=10.1021/es0492236](http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es0492236))

**Jain A**, Khanna S (2007) Effect of population size on the choice between non-landfill waste management options in India. In Press Environment Modelling and Assessment

#### **CONFERENCES**

**Jain A** (2007). Oral Presentation. "Evaluating Open Source GIS software for environmental planning in developing countries" Map Middle 2007, April, 9-11, 2007, Dubai International Convention and Exhibition Centre  
<http://www.gisdevelopment.net/proceedings/mapmiddleeast/2007/EnvironmentalPlanning.htm>

**Jain A** (2007). Oral Presentation. Evaluating GIS in Urban Landscape: the impact of technology and GIS on Organizations and Environmental Problem Solving, Map World Forum, Hyderabad. 22 -25 January, 2006. Abstract Volume P-51.  
[http://www.gisdevelopment.net/application/urban/overview/mwf\\_124abs.htm](http://www.gisdevelopment.net/application/urban/overview/mwf_124abs.htm)

**Jain A** (2007). Oral Presentation. GIS-based urban modelling: Community-based Organizations and Neighborhood Environmental Problem Solving, An International Conference on Urban Planning and Environment: Strategies and Challenges, Mumbai. 30-31 January, 2006.  
<http://www.elphinstonecollege.ac.in/conference/participants.html>

**Jain A** and Jolly S (2007). Oral Presentation. E-governance to E-democracy: Evolution with GIS. In: International Conference- Knowledge Management for Productivity and Competitiveness, New Delhi. 10 -11 January, 2006. Conference proceedings P-137-146.

**Jain A**, Khanna S, and Kaur H (2004). Poster Presentation. In: International Conference- Bioconvergence, Patiala. 18-20 Nov 2004. P-137.

**Jain A** (2003). Changing Landscape of Enviro-health hazards ó Future Trends. In: National Conference Soil-Elixir of Life. 26-27 Feb 2003

#### **WORKSHOP**

**Jain A** (2007). Oral Presentation "Convergence with Open Source", OSGeo Workshop, May 11, 2007, Noida, India.  
<http://www.gisdevelopment.net/magazine/global/2007/june/48.htm>  
[http://wiki.osgeo.org/index.php/User\\_talk:Ravivundavalli](http://wiki.osgeo.org/index.php/User_talk:Ravivundavalli)

**Jain A** (2004). Attended Workshop on Environmental Policy and Law for Promoting Sustainable Development, New Delhi. 24 Feb 2004.