

# Sachin Kanaujia

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<b>Objective</b>	Seeking a challenging position in software development/GIS consulting, pre-sales/Project Management where I can contribute significantly in the areas of technology development, business value-add and strategic planning
<b>Professional Summary</b>	<ul style="list-style-type: none"><li>• <b>Over 13+ years of strong experience in Software development both web/desktop/mobile GIS and non-GIS applications.</b></li><li>• Effectively handled Customers and large accounts of Global companies in various domain viz. Telecom, Utility, Oil &amp; Gas and Transportation</li><li>• Managed a portfolio of projects with a team size of 35 members with onsite-offshore Delivery model at Infosys.</li><li>• Managed a portfolio of projects with a team size of over 28 members with onsite-offshore Delivery model at IBM.</li><li>• Currently managing a team size of 45 members, where I am responsible for the People Management activities like bi-yearly appraisal and Feedback of employees</li><li>• Extensive Knowledge of GIS (ESRI product implementation), Java, UNIX and SDLC Processes. I have also worked on several RFP's</li><li>• ESRI Certified Enterprise Geodatabase Management 10.1 Associate</li><li>• Worked on <b>Amazon AWS</b> and <b>Google Cloud</b> based applications</li><li>• Strong understanding of <b>Project Management and Quality practices.</b> Proposed initiatives to improve project delivery, team productivity and client value add during my roles as Defect Prevention lead, SIG's on Performance and Quality processes</li><li>• Good GIS and telecom domain knowledge (NGOSS, eTOM). Over 7 years experience working GIS applications on BSS/OSS landscape, primarily network planning, engineering design and Service Assurance.</li><li>• Exposure to Telcordia GRANITE, worked on Telcordia's NGEDT</li><li>• Extensively worked on performance tuning of ArcSDE, Oracle queries, Optimization and SDE installation</li><li>• Strong experience of handling complete project life cycle (Waterfall and Agile)</li><li>• Ability to function as a team player, team lead and alternatively work independently to achieve objectives. I have trained and built teams on GIS skills and consistently delivered excellent results in various organizations</li><li>• Excellent problem solving and troubleshooting skills.</li><li>• Demonstrated ability to manage multiple tasks and deadlines both at offshore development center as well as interfacing with <b>Customers in</b> various Geographies</li><li>• Strong collaboration skills. Instrumental in Organizing various company event</li></ul>

Education	<b>Bachelor of Technology</b> , Electronics & Communication <b>Indian Institute of Technology, Roorkee</b>	<i>June 2004</i>
	<b>Class 10+2</b> <b>City Montessori Degree College, Lucknow</b>	<i>June 1999</i>
	<b>High School</b> <b>City Montessori Degree College, Lucknow</b>	<i>June 1997</i>

Professional Skills		
	Operating Systems	Windows (98, 2000 & XP), UNIX, MS-DOS
	Cloud Technologies	AWS, Google Cloud, Docker, Cloud Foundry, Cloud Formation
	Programming Languages	<b>Java</b> , PHP, Python, Shell scripts, Windows Batch scripting, PL/SQL, Visual Basic
	Web Development Languages	HTML5, HTML, Java Script, CSS3, JSP, Servlets, <b>Spring and Struts Framework, Hibernate, Bootstrap, JQuery, JQuery Mobile, Angular, Ionic</b>
	Databases	Oracle 11g, MySQL, POSTGIS, PostgreSQL
	Applications and IDEs	Apache Web Server 2, Apache Tomcat 7, <b>WSAD, WAS</b> , PL/SQL Navigator, Toad, MS VSS, Rational ClearQuest, Rational Performance Tester
	Miscellaneous	Hybrid Mobile Development (Cordova) MS Office Suite (Word, Excel, Access, Power Point), Adobe Photoshop
	GIS Technologies	<b>Google GTFs</b> Real time Transit  <b>ESRI Suite of desktop applications</b> - ArcMap, ArcCatalog, ArcToolbox  <b>ESRI Suite of Web applications</b> -ArcGIS Server, ArcGIS Runtime, ArcGIS Engine, ArcIMS, ArcIMS Java Connectors, Business Analyst, Network Analyst  <b>Open Source Softwares</b> – Geotools, GDAL libraries, Geoserver  <b>Data Management and Conversion</b> - ArcSDE, <b>FME</b> , Python, ArcSDE API, ArcObjects, Raster data  Geotransformation, Geocoding, Image processing, Application Performance tuning and optimization
	Domain/Clients	Telecom Energy(Oil & Gas) Utilities (Electrical)

**Work Experience Details**

(Total – 13.8 Years)

<b>Technology Head</b>	<b>Adoraz</b>	<b>Dec 2017 – Till Date</b>
<b>Project Head</b>	<b>Lepton Software</b>	<b>Mar 2017 – Dec 2017</b>
<b>Consultant</b>	<b>Tata Consultancy Services</b>	<b>Jan 2010 – Mar 2017</b>
<b>Team Lead</b>	<b>IBM, Chennai</b>	<b>Feb 2008 – Jan 2010</b>
<b>Programmer Analyst</b>	<b>Infosys Technologies Ltd. Chennai, India</b>	<b>June 2004 – Jan 2008</b>

**Project Details**

<b>Project Name and Description</b>	<b>Duration</b>
Infosys Fresher Training	June 2004 – Nov 2004

<b>Expanded Geographic Information System Project</b>	<b>Nov 2004 – Mar 2006</b>
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EGIS was desktop based GIS tool developed for **ATT(US telecom major)** and was used for network analysis and capacity planning by OSP's and network planners

I worked on the design and development of customized tools for viewing, geo-processing and analyzing spatial data. The Project involves development and customization of the tools on ArcMap (ArcInfo Desktop) using ArcObjects and VB. The data creation and data loading involved usage of ArcSDE API's, AML's and scheduling was done using UNIX scripts as cron jobs. The Data was pulled from various sources including an Enterprise-wise Datawarehouse for high capacity fiber lines and converted in GIS format.

During this project I played multiple roles of module coordinator, Quality Assurance and Defect Prevention Lead.

I also worked for the development of a **Web based GIS application called Cable Locate** for a telecom major in U.S. The application helps automate the process of screening the tickets from OCC's for dig sites and provides accurate data for decision making eventually improving process efficiency and reducing cost. The application processes raw data, extracts address of dig sites and uses geo-coding techniques to locate the tickets. Once the tickets are located, geoprocessing techniques are used to check for buried assets and infrastructure. The application handles data from SDE database.

I have also provided technical assistance in design and coding of several other applications like VTS (Vehicle Tracking System) and Boundary Manager

Technologies Used : Java API, JavaScript, HTML, XML, ArcIMS, ArcSDE, ArcObjects

<b>Outage Communication System Project</b>	<b>Mar 2006 – Jan 2008</b>
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Outage Communications System (OCS) is a web based GIS enabled system designed to address the outage information needs of the company (identified during critical circumstances such as natural disasters as well as normal day to day operations).

Specifically, it is designed to provide outage data in a variety of ways, both in relationship to organization's network and operational boundaries and with respect to governmental bounds and customer-centric views. This would serve as a decision support system which would help the organization to

1) Plan their restoration activity  
 2) Communicate the Customer centric restoration information

The application was developed using Struts - Hibernate framework and ArcIMS Java connectors (and ArcSDE for Geospatially enabling the application)

Several critical systems like **Asset Management, DSS (corporate datawarehouse), Ticket management and Landbase GIS** were integrated to provide a unified view and communicate consistent information to all stakeholders

**I was the Onsite Lead for this mission critical project. My responsibilities included participation in RFP, Requirement Analysis, Design, Coding, Reviews and System testing of various modules of the project.**

As a part of the project requirements I worked on and implemented several performance improvement techniques to deliver a high performing **near Real Time GIS web application**, which include ArcSDE tuning and caching techniques.

Technology Used : Struts, Java API, JavaScript, HTML, XML, ArcIMS, ArcSDE, Python, Unix shell scripting

FIT/VisAN/SLI/NGOSPE/ BNDMAN	Feb 2008 – Jan 2010
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I have worked as a **Technical Team Lead** for several GIS applications for a US telecom major under their **Wire line portfolio of applications** which are primarily used for network planning, aiding design and tracking network performance. Along with the development activities **I have also handled the Project Management aspect including Quality processes of the project with team size of 18 members.**

**FIT** is a **Fiber Inventory Tool** which geo-spatially enables the **Inventory data** for the company. The graphical front end application (HTML Viewer), built on ArcIMS services helps in the geo-spatial analysis of the Fiber data. This application provides a unified view of several Fiber Inventory System and Engineering design system for planning and reporting.

The **Visual Analysis of the Network (VisAN)** system enables the user to display engineering design graphics and tabular data on a land base for copper technology. The system is a 13-state standardized tool that aids the user in analyzing data. It provides a single geographic view of the network, eliminating the need to access multiple systems, so that Operations System Planning (OSP) projects can be planned and designed more efficiently. VisAN frees planners and engineers from the need to frequently access multiple legacy systems. This tool allows the planner a more efficient means to view the facilities in a route without accessing the CAD Engineering design systems. The Reporting tool is a module within VisAN that produces a series of reports based on tabular data based on the business rules

**SLI** is a **Service Loop Indicator application** which helps the Network Planning and Support Systems to analyze the network performance and design efficient cable loops for higher bandwidth at the same time giving cost reduction to the company. This reduces lot of manual effort for the construction and engineering group and is a part of the greater Light Speed initiative to rollout the high speed fiber technology. The Project Light Speed would help build an advanced, IP-based network to deliver IP-based TV, super high-speed broadband and IP voice

	<p>services.</p> <p>There were several backend jobs implemented to make the system efficient like</p> <ul style="list-style-type: none"> <li>- Loads to maintain data interoperability between legacy systems, CAD systems and GIS database</li> <li>- Path generation process to establish network paths starting from the CO or the Exchange till the customer premises</li> <li>- Loop length calculation to aid design analysis</li> </ul> <p>It also involves creation of spatial data using FME, ArcSDE Java API's, Python and SDE commands</p> <p><b>Boundary Manager</b></p> <p>BndMan is a desktop based application on the ArcMap tool of ArcGIS. ArcMap is the tool for creating, viewing, querying, and editing, composing, and publishing maps. This application helps the telecom enterprise to edit and manage network boundaries like Distribution Areas, Carrier serving areas for <b>Workforce Management</b> and Administration. This helps in maintaining their network elements and also improves their operational efficiency. The Layers are stored as versioned to provide multi-user editing environment.</p> <p>Technology Used : Struts, Java API, JavaScript, HTML, XML, ArcIMS, ArcToolbox, ArcSDE, ArcObjects, Python, FME, Unix shell scripting, Oracle</p>
<b>Integrated Geographic Information System</b>	<b>Jan 2010 – June 2011</b>
	<p>IIS is a web based mapping application for one of the Oil and Gas Major which would help in <b>data discovery</b> (i.e. locate their infrastructure/assets) and taking informed decisions for Exploration and Production. The project involves web application development using ArcGIS Server Web ADF as well as creation of spatial data from different file formats and legacy systems. It also involves extensive geotransformation of data for accuracy.</p> <p>Wordpress was used as a content management tool and I have extensively worked on CSS/HTML for content design of various portals. Single Sign on (SSO) using Kerberos was implemented for user authorization.</p> <p>The data connectors would be used to bring the data from different systems and give a unified view to the web application. The data scheduling is achieved through Oracle jobs. I managed a team of 6 members at offshore</p> <p>Technology Used : SDE Java API, JavaScript, HTML/CSS, ArcGIS Engine, ArcGIS Server 10, ArcObjects, ArcSDE 10, Unix shell scripting, Oracle, Oracle Jobs, Wordpress, Linux, Apache, MySQL, PHP</p>
<b>DecisionSpace Desktop</b>	<b>June 2011 – Mar 2017</b>
	<p>I worked on ArcGIS Runtime based desktop product being built ground up using Eclipse RCP. It involves massive redesign for better user experience and optimized performance.</p> <p>Before this I worked on <b>ArcGIS Engine based desktop product</b> for one of the leading Oil &amp; Gas company which is used for Asset Management, workflow integration and 2D &amp; 3D data analysis supporting variety of legacy E&amp;P data, various geospatial vector/raster formats, elevation models. It has extensive support for cartographic conversion, geo-referencing and data conversion. It is one of the award winning products in the Oil &amp; Gas industry</p> <p>Technology Used: Java 3d, ArcGIS Engine, ArcSDE, Windows, Linux, Geotools,</p>

	<p>Gdal libraries, Image Processing</p> <p>I am also leading an initiative to develop a GIS based Search Engine solution for E&amp;P industry based on the Open Source stack deployed on AWS Cloud. Worked on mobile based GIS solution</p> <p>Technology Used: Java, Geoserver, Postgres/postgis, ExtGIS, OpenLayers, Bootstrap, Apache Solr, Windows, Linux, AWS Cloud</p>
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### Telecom Projects

Mar 2017 – Dec 2017

	<p>As a Project Head of the software division of Lepton Maps, I am responsible for the Delivery of various Projects in Telecom Domain viz. Smart Inventory (Inventory management application), Smart Feasibility (wireline and wireless feasibility) and Smart Analytics.</p> <p>Currently I am involved in migration of the applications to AWS cloud stack with software managed multi-tenancy. We are also building hybrid mobile application for <b>Field Force Tracking</b> and offline <b>Routing/Navigation</b>. I have extensively worked on responsive real-time web applications for several projects</p> <p>Apart from this, we are also working in collaboration with Google on the <b>Google Transit</b> project to provide Real Time ETA for public transport (buses) operating in India. Apart from managing a team of 45 FTE, I also work very closely with the Presales team on proposals and Proof of Concepts on emerging technologies and architectures</p> <p>Technologies used - Java, Google Cloud, AWS, Docker, Cloud Watch, Cloud Formation, Cordova, Graphhopper, Postgres, Pivotal Cloud Foundry, Oracle VM VirtualBox, Angular, Ionic</p>
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### Personal Projects

<b>School Management System</b>	<b>April 2018</b>
I worked on building a school ERP along with school vehicle tracking in realtime.	
<b>Adoraz Jewellery Marketplace</b>	<b>Dec 2017</b>
I worked on the front end development of Adoraz, which is a multi vendor marketplace for Jewelers. I involved responsive web design compatible with mobile, tablets and desktop browsing	

### Corporate Training Assignments

**ArcGIS Training** – Infosys Technologies Pvt. Ltd.

### Academic Projects

<b>Study and Design of Rectangular Micro-strip Patch Antennas</b>	<b>May 2003</b>
Summer Project on “ <b>Study and Design of Rectangular Micro-strip Patch Antennas</b> ” at <b>Space Applications Centre, ISRO, Ahmedabad</b> under the guidance of <b>Mr. S. Chakraborty, Head Remote Sensing Division, Space Application Center, ISRO, Ahmedabad.</b>	
<b>16-Bit ALU Design in VHDL</b>	<b>May 2004</b>
B.Tech. (4th yr) Project in 2003-2004 under the guidance of <b>Dr. S.Sarkar, Department of Electronics and Communication Engineering, Indian Institute of Technology, Roorkee</b> on ' <b>16-Bit ALU Design in VHDL</b> '. The project consisted of designing a 16 bit ALU on VHDL and testing the performance on FPGA kit. We also improved the performance using parallelism and pipelining technique. The design was done on: ModelSim and Xilinx tools for VHDL.	

<b>Achievements</b>	
	<p><b>3<sup>rd</sup> Prize at the Global Entrepreneurship Summit, 2011, IIT Kharagpur</b></p> <p><b>TCS Star of the Month (2012)</b></p> <p><b>TCS Star of the Month (2011) and Individual appreciation</b></p> <p><b>TCS Star of the Quarter (2010)</b></p> <p><b>IBM Global Thanks Award (2009)</b></p> <p><b>IBM - Bravo Award (June 2008)</b></p> <p><b>IBM Global Thanks Award (2008)</b></p> <p><b>Infosys Individual Excellence Award (2006 - 2007)</b></p> <p>Awarded Spot Awards for consecutive quarters (Infosys) (2006)</p> <p>Mathematics topper in ISC board exams (2004)</p> <p>Jnanapath Merit Scholarship (1996)</p>
<b>Extracurricular Accomplishments</b>	<p><b>Joint Secretary of the Electronics Section, IIT Roorkee</b> in Year 2002.</p> <p><b>Co-Convener of “SRISTHI”, All India Hobbies Club Fest, IIT Roorkee, 2004.</b></p> <p><b>Chief-Editor “SRISTHI”, Annual Hobbies Club Magazine, IIT Roorkee, 2004.</b></p> <p><b>Member of the Music Section, IIT Roorkee</b></p> <p>Coordinated many Company events and recruitment drives at <b>Infosys</b></p> <p>Design and publicity team Tech Blue 09 – <b>IBM</b></p> <p>Member of SIG – Performance Engineering (Account Level) – <b>IBM</b></p>
<b>Areas of Interest</b>	<p>Mashups (specifically using Google Map APIs)</p> <p>Social Media, front end design and Mobile web development</p>