

SCOTT STEIGERWALD

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SUMMARY:

Over 13 years development experience and 6 years management experience in a variety of GIS/Web/Business Intelligence projects which cover everything from corporate information systems, business support applications and public access systems. Responsible for project management, team leadership, project definition, architecture, development, testing, deployment, documentation and support.

TECHNICAL SKILLS:

- .Net Framework 1.1, 2.0, 3.5, C#, VB.Net, ASP.NET, Flex, AJAX & JavaScript toolkits (jQuery, Dojo, MS Ajax Toolkit), Enterprise Library, ADO.Net, Java
- ArcGIS Server, ArcGIS Image Server, ArcSDE, ArcObjects, ArcIMS, ArcMap, ArcGIS Desktop and Workstation, MapGuide OpenSource, MapGuide Studio, Mapping API's and SDKs (Google Maps, Virtual Earth, MapQuest, Yahoo! Maps), MapInfo, MapBasic
- SQL, Oracle, Microsoft SQL Server, Netezza, SQL Server Reporting Services, Microsoft SharePoint, Team Foundation Server, Data Transformation Services, SQL Server Integration Services

CERTIFICATIONS:

Microsoft Certified Professional (MCP), MCP ID 3356275, Developing and Implementing Web Applications with Microsoft Visual C#.NET and Microsoft Visual Studio.NET (70-315), March 2005.

Certified GIS Professional (GISP), Certification Number 00049742, Received GIS Certification from the GIS Certification Institute, December 2004.

EXPERIENCE:

AECOM (formerly Earth Tech, Inc.) – January 2007 to present

Senior GIS Consultant/Architect – Developer and architect of web-based and desktop GIS applications including C#, VB.NET, ASP.NET, ArcGIS Server, ArcObjects, ArcSDE, Oracle, SQL Server, AJAX and other technologies. Also responsible for architectural tasks including database and application design, requirements gathering, proof-of-concepts, mentoring and other tasks.

- Developed several Flex-based ArcGIS Server 10 websites
- Developed a Situational Awareness Tool website using ArcGIS Server JavaScript API and Java/JSP
- Developed a solution provide event driven maps in SQL Server Reporting Services using ArcGIS Server and SQL Server Spatial
- Developed a Web-based GIS site using MapGuide Open Source for a city government.
- Developed a new module for a Record of Decision information collection application. This Web-based application was developed in C# with an Oracle database.
- Developed a Web-based mapping application for tracking contaminated water in the New Orleans area. ArcGIS Server was used as the map serving technology.

University of Colorado at Denver – August 2005 to Present

GIS Lab Instructor – Teach a graduate-level GIS lab class at the University. Duties include creating course materials, labs, projects and exams, providing aid to the students and grading the students on their progress.

SteigerWorld Solutions, LLC. – January 2008 to December 2010

Owner – Started my own consulting company due to demands for my skill set. Responsible for all aspects of the business including; marketing, gathering requirements, writing proposals, designing solutions, and application development. Projects included spatial and non-spatial development.

Idea Integration. – September 2008 to September 2009

Geospatial Solution Architect – Part of the Idea Integration's Denver office leadership team. Responsible for system architecture, project and team management, mentoring, pre-sales efforts and application development.

- Developed a C# Windows-based solution allowing a client to create new geospatial databases at the click of a button. The application creates the database and all necessary users, creates the SDE repository, imports tables and feature classes, and applies referential integrity.
- Developed a data migration solution for a local government client allowing them to automate the process of moving data from edit to staging to production databases. The solution was developed in C# and used XML extensively to allow customization of migration tasks. As a console application, the solution can be scheduled as an unmonitored task that will send email alerts upon error.

Nelnet, Inc. - September 2005 to April 2007

Business Intelligence Team Lead - Responsible for management activities including staff management, hiring, mentoring, software management, server management and maintenance, application design and architecture, project resourcing and project oversight. Also responsible for application development.

- Managed team of developers leading an effort to develop a Customer Relationship Management (CRM) software package. The Microsoft Windows application will be used by Nelnet's 600+ call center agents and brings together over 20 applications and telephony integration into one interface. Duties include leading meetings (developers, QA, integration leaders and call center leaders), resource planning and management, release scheduling, transition from contractors to in-house developers and other duties. Technologies include C#, CAB, CTI, Enterprise Library, WebService Factory, and Infragistics.
- Supervised and involved in development of several business intelligence dashboards. Various technologies include Dundas Gauge, Business Scorecard, Sharepoint, ChartFX, C# and SQL Server Reporting Services 2005.
- Designed and developed an automated claims form application used to auto-populate claims forms from data residing in the data warehouse. This web application was developed using C#, SQL Server 2005 and SQL Server Reporting Services 2005.

Earth Tech, Inc. - February 2003 to September 2005

Senior GIS Consultant/Group Manager - Developer of web-based and desktop GIS applications including C#, VB.NET, ASP.NET, MapObjects, ArcObjects, ArcIMS, ArcPad, ArcGIS, ArcSDE, Visual Basic, Oracle, SQL Server and other technologies. Also responsible for management activities including staff management, task management and other management related duties.

- Aided in the design of an advanced ArcHydro data model for a metropolitan water district in Florida. The design was implemented in an SDE database, populated and extended to include new features including raster data, hydroperiod time series data from DBHYDRO and basemap data.
- Developed an ArcIMS websites to provide mapping and querying of structures to view operating rules related information for a metropolitan water district in Florida.
- Developed two ArcIMS websites to provide mapping for recreational and military users for an Air Force range in Florida.
- Developed a web-based system to provide electronic maintenance and record keeping of critical data for improving daily operation of a major Naval facility based in Bethesda, MD.
- Developed an online data collection tool using VB.NET, ASP.NET, Oracle and ComponentOne objects for a federal client. The application allows users to import Excel format data into the database, upload documents and photos, and perform advanced query all in a web-based environment.
- Developed an online data collection tool using VB.NET, ASP.NET, SQL Server and ComponentOne objects for a major airline. The application allows users to upload Excel format data, upload photos and generate reports all in a web-based environment.
- Developed an ArcGIS Server application using C#. Application allows edits to be performed on a flight line management system, allowing users to edit airplane locations directly through a web browser.

- Managed a hazardous waste project and acted as lead developer. Duties included designing a geodatabase for Oracle and SDE, converting and loading data, developing management tools in ArcObjects for use in ArcMap and ArcCatalog and assigning tasks to staff for data collection.
- Developed a data tracking application based on ArcObjects and Visual Basic with connections to an SDE database. Both a desktop application and a web-based viewer were developed. The desktop application was developed as an add-in to ArcCatalog and allows administrators to perform updates. The web-based application, built in ASP, allows users to view information about data status.
- Performed an application migration of a program management application from Access to SQL Server and ASP.NET with C#. Designed a SQL Server database based on the original Access application including improvements to the database integrity and design. Developed the front end in ASP.NET with C# as the development environment.
- Developed a system for collecting data in the field, syncing the data with a database and viewing the data on the web. Used the ArcPad Application Builder with VBScript to create a customized field application that allows the user to collect information about hazardous spills. Developed a Visual Basic application that uploads the data into SDE and Oracle.

Idea Integration - January 2001 to February 2003

Consultant - Developer of location based e-business applications; focused on custom applications, tools and databases. Developed websites based on the client's needs, including their choice of operating system (UNIX or Windows), Web Server (Netscape/iPlanet, IIS, Apache), database, and programming platforms. Other responsibilities included composing documentation, writing proposals and functional requirements and following the Roadmap methodology for software development.

- Part of a team that developed a parcel based editing and updating application for a large County. Responsible for ArcObjects 8.2 development against a versioned geodatabase (SDE). ArcObjects DLLs were developed to create custom tools in ArcMap that are used in the parcel maintenance process.
- Developed a GIS-Based website for a federal security agency. Developed with Java Server Pages (JSPs) and Java Beans connecting to an Oracle database and SDE.
- Developed an ArcView 8.1 application for a City Water District using Visual Basic and ArcObjects. This application included feature editing, attribute editing, analysis and reporting tools.
- Designed and developed an integrated GIS system for a City Parks and Recreation Department. The integrated GIS included a MapObjects application that created images based on user input, an ArcView 8.1 application with ArcObjects and Visual Basic that was used as a desktop client and allowed for data check-in and out and analysis, and ArcPad forms that were used in the field for data collection.
- Developed a GIS Website for a statewide electrical utility company using ArcIMS, ColdFusion, and Sybase. Developed new spatial query tools, database query tools, dynamic feature labeling, alternate navigation tools and a full suite of graphic "redlining" tools for the HTML viewer.
- Developed a GIS Website for a national Site Analysis company using ArcIMS, Visual Basic, Active Server Pages (ASPs), SDE, and Oracle. Dynamically generated maps allowed the user to create thematic maps based on their selection criteria.

Parsons Brinckerhoff Network Services, Inc.- November 1999 to January 2001

Application Developer, Level(3) Communications network construction project - Developed ArcView/Avenue programs, ArcIMS applications, Web pages, applications and databases that automated the fiber network construction tracking process. Developed several Websites using ESRI's ArcIMS map serving product with HTML, XML, JavaScript, Java, Servlets, Applets, JDBC and other Web based technologies. Sites included construction tracking, dark fiber tracking, equipment tracking, tax parcel tracking and fiber management Websites. Other duties included Web Server administration, SDE database management, data loading, and administration and other application development including ArcView/Avenue.

TRI-COR Industries, Inc.- June 1998 to October 1999

Contractor/Programmer Analyst - Senior programmer at the United States Geologic Survey, Rocky Mountain Mapping Center. Developed desktop applications for multiple internal clients using MapInfo and MapBasic, ArcView and Avenue, MapObjects, Visual Basic, and Oracle Designer and Developer. Applications developed and maintained included the internal and WWW versions of the USGS Status Graphics, sales data applications, and file automation and database retrieval tools.

Harding Lawson Associates- October 1996 to June 1998

Programmer Analyst - Developed GIS datasets for environmental applications using AML programming, data conversion and retrieval, geographic analyses, management of large datasets for all Arc/INFO based projects, map production, and client support. Developed ArcView desktop applications using Avenue programming. UNIX administrator.

EDUCATION:

State University of New York at Buffalo

Master of Arts, Geography, concentration in Geographic Information Systems, February 1997

State University of New York at Buffalo

Bachelor of Arts, Geography, certification in Geographic Information Systems, May 1995

TRAINING:

Developing Applications with ArcGIS Server Using the Microsoft .NET Framework

ESRI, September 2007

Programming with ADO.NET

New Horizons Computer Learning Centers, January 2005

Introduction to C# Programming with Microsoft .NET

New Horizons Computer Learning Centers, December 2003

Java Programming Certificate

University of Colorado at Boulder Continuing Education, December 2000

AFFILIATIONS:

2004 to 2007 Rocky Mountain GITA Board Member

Past-President (2007), President (2006), President-elect (2005) and member at-large (2004). Involved in making decisions regarding organization activities, fund raising and member recruitment.

GIS in the Rockies 2004, 2005 Track Chair

Responsible for organizing a presentation track including soliciting abstracts, choosing papers and assigning subtopics.

GITA (Geospatial Information & Technology Association)

Active member since May 2003.

COPYRIGHTS AND PUBLICATIONS:

Choosing ArcIMS Connectors and Viewers, ArcUser Magazine, ESRI Press, January – March 2002

This article explained how the ArcIMS user community should choose which viewer and connector with their implementation based on a number of factors.

Electronic Trainer Workout Program, Copyright 2000

A Visual Basic application that connects to a database and produces workout programs based on values entered by the user.

SECURITY CLEARANCE:

Secret level security clearances previously obtained through Department of Defense and Department of Treasury