HARICHARAN PULUGURTA

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Summary

More than 9 years of experience in software development using various platforms such  
as C#, ASP.NET, JavaScript, HTML, CSS , MongoDB , SQL Server, MS Access,  
FoxPro , nHibernate, LinqToSQL, Entity Framework, Silverlight, Domain  
Services  
Expertise in developing Geographical Information Systems Applications (GIS) using  
ArcGIS Server Suite, ArcObjects, MapObjects, ArcGIS API for Silverlight, Spatial  
SQL Server 2008.  
SQL and database programming using Mongo Shell, SQL, T-SQL, Stored  
Procedures, Triggers, VBA.  
MongoDB for DBA's Certificate - July 2013  
Publications and conference proceedings in various journals.

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Summary of Skills

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Programming:Visual Studio 2010/2008/6,  
WPF, ADO.NET, ADO, DAO, Java, VBA,  
Python, XCode, SonyVegas, DevExpress  
Controls, Telerik Controls, IBM Rational, XML,  
DTD, XSD, Crystal Reports, SQL, T-SQL,  
TOAD, PL/SQL, LinqToSQL, Entity Framework  
Windows Phone 7 Application Development  
Web:ASP.NET, Silverlight 4.0/3.0, Expression  
Blend, DotNetNuke, Adobe Flex, Flash, Action  
Script, PHP, XAML, XHTML, XSL,XSLT, HTML,  
VBScript, Domain Services, IIS  
GIS:ArcGIS Server 10, ArcGIS Desktop 10,  
ArcSDE 10, WebADF, ArcObjects, Python  
Scripting for ArcGIS, MapObjects, Google  
Earth COM API, KML, ARCGIS API for  
Silverlight, Bing Maps (Silverlight Interactive  
SDK), ArcGIS 9.x,  
Database:SQL Server 2012/2008, MongoDB,  
MS Access, FoxPro  
Data Analysis/Statistics:SAS, R, SPSS,  
MINITAB, MATLAB  
Office Software:MS Office (Word, Excel,  
Outlook, PowerPoint) with Macros  
Platforms:Windows 7/Vista/XP, Mac OS X

Experience

Senior Software Developer Dec 2012 to Current  
THE NEW TEACHER PROJECT

Software Developer Apr 2011 to Oct 2011  
WINDANALYTICS.COM

Develop web-based Human Capital system, TeacherTrack2.org on .NET4.0  
framework using ASP.NET, JavaScript, SQL Server, MongoDB and Silverlight in  
Agile/Scrum development environment.  
Test-driven development using Selenium.

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Roles and Responsibilities: Develop features for web-based in Agile/Scrum  
environment.  
Extensive use of JavaScript, CSS, HTML to design and develop web pages.  
MVVM based JavaScript development using Knockout, Coffee Script.  
Server side development using C#, ASP.NET, MVC, Windows Workflow Foundation.  
Database programming using SQL Server, nHibernate, Stored Procedures, Views.  
NoSQL database programming using MongoDB, C# and JavaScript.  
Test driven development using Selenium based web tests and unit tests using MbUnit  
and Galelio.  
Extensive use of performance tools such as nHibernate profiler, SQL profiler,  
dotTrace, NewRelic for improving performance of website in terms of faster load  
times.  
Environment: NET Framework 4.0, C#, ASP.NET MVC4, Silverlight 4, JavaScript,  
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Jul 2010 to Apr 2011

FOLIAGE SOFTWARE SYSTEMS － Burlington, M A

Develop web based GIS applications using .NET framework, ASP.NET and Silverlight.  
Ensure adherence to quality control practices pertaining to code.  
Create geoprocessing services using ArcGIS Server, ArcSDE and ArcObjects Python  
library.

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Jul 2010 to Sep 2010

VOLPE － Boston, M A

Developed a prototype web based geographical information system for FAA using  
ASP.NET, C#, ArcGIS Server 9.3, ArcSDE 9.3, ArcGIS WebADF in an AGILE process.  
The web based GIS application had features such as connecting to ArcSDE, editing  
features (adding, deleting and changing geometry).  
Developed custom GIS web controls that extended WebADF controls using C#.  
Conversion of WEB ADF based application to Silverlight version.  
Environment: NET Framework 4.0/3.5, SVN, StyleCop, C#, WPF, ASP.NET,  
ADO.NET, ADO, DAO, WinForms, DevExpress Controls, Telerik Rad Controls,  
Silverlight 4/3, Flex, HTML, SQLSERVER 2005, SQL, T-SQL, ARCGIS Server 10.0,  
ArcGIS Desktop 10.0, ArcGIS Server 9.3, WebADF, ARCOBJECTS, KML, GOOGLE  
EARTH, BING Maps, MapObjects, Google Earth COM API, ARCGIS API for Silverlight,  
SAS, MINITAB, MS Project, IBM Rational, Windows 7/ VISTA/ XP.

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Apr 2010 to Sep 2010

VOLPE － Boston, M A

Developed a web application for FAA/NPS personnel to download/view/add/modify  
GIS data using ASP.NET 4.0, C# 4.0, Silverlight 4.0, SQL Server 2008, ArcGIS Server  
10.0, ArcSDE, ArcGIS API for Silverlight in an AGILE software development process.  
Extensive use of Silverlight Telerik Rad Controls for displaying data (tabular and  
graphical) Utilized Web Services to automatically download GIS data (USGS Seamless  
server) on the server and import it to the ArcSDE database.  
Created REST based geoprocessing services using ArcGIS Server, Python and  
ArcObjects to send large amounts of GIS data as images.  
Extended the ArcGIS API for Silverlight for building complex user specific GIS tools that  
utilize the geoprocessing services/third party web services to analyze the GIS data.  
Strict adherence to quality control practices pertaining to code such as version control  
using SVN, coding practices such as MVVM, styling using StyleCop and unit testing.

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NET Developer/GIS Developer Dec 2007 to Jul 2010

INFRASTRUCTURE MANAGEMENT SERVICES － Chicago, Illinois

Conceptualize, develop and maintain leading-edge database-driven pavement  
management information systems (PMIS) for monitoring and generating reports on  
conditions of city pavement infrastructures.  
Design and deploy software upgrades / enhancements, troubleshoot software issues  
and debug code.

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Roles and Responsibilities: Developed a data collection application using C#,  
DevExpress, SQL Server that interfaced deflection measurement instrument with a  
GPS instrument using serial port communication.  
Developed a web PMIS that integrates pavement condition data (Data, Images and  
Videos) with GIS maps using C#, ASP.NET, ADO.NET, Silverlight 4, WCF, Bing Maps  
and SQL Server.  
Developed a Silverlight application using C#, ASP.NET for field crew/office personnel.  
Field crews upload data online as data are collected which is then evaluated by office  
personnel.  
Developed various kinds of 3D data visualization techniques using ArcGIS, KML/Google  
Earth, Silverlight 3, Bing Maps and field surveying data.  
Developed a.

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Research Assistant Aug 2002 to Dec 2007

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UNIVERSITY OF TOLEDO － Toledo, Ohio

Infrastructure Information Systems Research Lab Performed extensive research,  
development and analysis of pavement management information system (PMIS) for  
the Ohio Department of Transportation (ODOT).  
Liaised closely with ODOT Office of Pavement Engineering in gathering user  
requirements and delivering project updates.  
Developed Pavement Management Information System (PMIS) for ODOT.  
PMIS is a data input, analysis and reporting software with more than 100,000 lines of  
code in VB6, MS Access, DAO,ArcGIS and MapObjects.  
Spearheaded development and implementation of Aggregate Geographical  
Information System (AGIS) for ODOT using C#, ArcGIS, ArcObjects and Access for use  
in performing analysis of spatial statistics culled from pavement aggregate data.  
Skillfully analyzed and programmed into PMIS statistical models such as regression,  
Markov, Kaplan-Meier, Weibull and linear mixed effects.  
Utilized data mining algorithms such as cluster analysis, decision trees and fuzzy logic  
using C# and Java to identify e.

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Traffic Engineer / Manager Oct 2001 to Aug 2002

CENTER FOR TRANSPORTATION － Hyderabad

Designed, developed and upgraded various traffic analysis software's.  
Troubleshot issues with software performance through code analysis and debugging.

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Education

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Ph.D, Engineering

UNIVERSITY OF TOLEDO － Toledo, Ohio

Master's degree, Transportation Engineering

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY － Hyderabad, India