**Rajesh Aggarwal**

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Objective: Data Scientist

Summary:

Worked with Spark, Impala, Hive and other Open Source products. Data visualization using Tableau. Machine Learning, Statistical modeling and Predictive analysis using Spark, KNIME, and Python. Developed SQL scripts for Impala and Hive and Spark SQL. Worked with Splunk for machine data analysis. Using Hadoop cluster and relational databases (Oracle, SQL Server), and Excel and CSV files. Using Spark MLLib, numpy, scipy, matplotlib and Jupyter iPython Notebook.

Microsoft certified with strong software skills especially in Microsoft Business Intelligence, SharePoint and web technologies (ASP.NET , ASP.NET MVC, C#, jQuery, SSIS, SSAS, SSRS, SharePoint, SharePoint Designer, .NET Framework, VB.NET, PL/SQL, SQL, Web Forms, Windows Forms, ExtJS JavaScript, AJAX, SOA, Web Services, SQL Server, Oracle, Access, IIS).

Used Agile/SCRUM lifecycle methodology. Also worked with XML, UML, Java, JavaScript, HTML, DHTML, CSS, Master Pages, Themes and Skins.

Big Data Specialization and Machine Learning Certificates.

U.S. Citizen with TS/SCI clearance and CI Poly.

Work Experience:

Sotera Defense Solutions, Herndon, VA

October 2014 – Present (Federal Client)

Lead Business Intelligence Developer

Developing Supervised and Unsupervised models for Clustering, Sentimental Analysis, Recommendation Systems and Predictive analysis using Spark Mllib and Python. Developing Statistical models and performing error analysis. Worked on Graph analysis with Spark GraphX .

Developing complex visualizations using Tableau. Developed Dashboards, Scatter plots, Box plots, Histograms, Heat Maps, Line Charts, Geospatial and other chart types using Tableau. Performed data transformations and filtering. Worked on SQL queries for Impala and Hive. Worked with Splunk for machine data analysis.

Using Hadoop cluster and relational databases (Oracle, SQL Server) and Excel and CSV files.

AKIMA LLC, Herndon, VA

October 2012 – September 2014 (Federal Client)

Senior Application Developer

Developed visualizations using Tableau for reports. Developed Text tables, Bar charts , Heat Map and exported data and PDF. Worked on SQL queries. Used Oracle and SQL Server for databases.

Worked on Business Intelligence projects using Microsoft BIDS suite of products. Designed, developed and implemented solutions using ETL (SSIS), Cube (SSAS) and Reports (SSRS). Designed SQL Server database and imported data from Oracle 11g database. Created indexes, SQL queries and developed reports for direct reporting from SQL Server 2012 database. Worked on C# libraries for generating an Excel worksheet report and Reporting Service reports. Deployed reports in a SharePoint 2010 farm. Provided technical leadership, mentored other members of the team and delivered consistently on Agile Sprint tasks.

Developed enterprise web-based applications using ASP.net MVC design pattern and loosely-coupled code. Developed database SQL scripts and stored procedures for SQL Server. Used Visual Studio 2012, C#, jQuery, Linq, Generics, Extension methods, Delegates, Razor views and cshtml.

Secure Mission Solutions, Inc., Arlington, VA

September 2011 - September 2012

Lead Developer / SharePoint Architect

Designed and developed SharePoint 2010 portal for a law enforcement agency. This portal involves custom tasking mechanism with workflows and document management. Created custom lists and library to manage information. Created custom search solution for searching on document library. Worked with master page for branding and client-side scripting using jQuery. Worked with knowledge management tools in SharePoint 2010 as Taxonomy and Enterprise keywords. Used SharePoint 2010, SharePoint Designer 2010, Visual Studio 2010, C# and jQuery.

IBM, Fairfax, VA

July 2010 - September 2011

Advisory Software Engineer

Worked on architecture, design and development of ExecSec Task Tracker (ESTT) application. Architected and designed content management solution for ESTT application. Designed and developed user interface components, features and worksflows for ESTT 2.0. Designed and developed a security trimmed Top Navigation menu for ESTT application. Menu items displayed are specific to user privileges. Utilized SharePoint object model. Created a solution package for deployment. Used SharePoint 2007, SharePoint Designer 2007, Visual Studio 2008 and C#.

Omnitec Solutions, Inc., Washington D.C.

November 09 – July 2010

Lead Software Developer

Architected, designed and developed Employee Profile System (EPS) in SharePoint for a Government client. EPS architecture is based on utilizing My Site and User Profiles store in SharePoint 2007. Worked on data migration from SharePoint lists into an external SQL Server 2005 database for Task Management System. Developed Report Builder web part using SQL dynamic query.

Developed web parts for version history, lookup field for cross-site lookup and custom display of data and deployed these as features in SharePoint. Wrote CAML and custom event handlers.

Ross Technologies, Inc., Arlington, VA

December 08 – November 2009

Senior Software Developer

Worked on IMPACT project for Drug Enforcement Administration (DEA). Developed custom web parts for migrating IMPACT to SharePoint 2007. Developed custom templates and lists using SharePoint Designer. Designed and developed Custom File Folders feature using Telerik Treeview and Grid controls. Users can dynamically create, rename, remove folders and set security permissions.

Northrop Grumman, Chantilly, VA

November 06 – December 08

Senior Software Developer

Scrum Lead for AHLTA project for the Military Health System. AHLTA is electronic health record (EHR) that gives healthcare providers access to data about beneficiaries' conditions, prescriptions, diagnostic tests and additional information essential to providing quality care. Worked on conversion of Laboratory module from Windows to web based. Used MVC design pattern for .NET coding and ExtJS JavaScript library for client. Worked on conversion of the Problems module from Visual Basic 6.0 to VB.NET. Used MVP design pattern, Windows Forms and Infragistics WinGrid.

Worked on Joint Threat Intelligence Database (JTID) project for DISA. JTID provides user interface and data store for computer threats on DOD networks. Designed, developed and deployed changes to the application utilizing ASP.NET, C# and Oracle 10g. Used Web Services and XML for data interchange between users and different components of the project. Used Infragistics and Telerik controls for enhancing user interface functionality.

**AT&T Government Solutions, Vienna, VA**

**July 06 – November 06**

**Senior Developer**

Worked on a Funds Control Module project for Department of Army. Worked on a Windows Service in VB.NET to schedule jobs to import and process existing data. Developed an application for synchronizing project data with source. Designed and developed several reports in ASP.NET and SQL Server.

**Nextel Communications, Herndon, VA**

**July 04 – June 06**

**Senior Developer**

Worked on a Scorecard application that provides an online means for creating, editing and viewing important corporate metrics information. Designed and created classes to implement different tasks in the application. Created Use Cases and Class Diagrams. Designed and implemented role-based security and navigation menu system. Worked on screens for homepage, strategy map, objectives, initiatives, administration and tracking status of measures. Created Web Service for managing scheduled Essbase task. Used Microsoft web technologies (ASP.NET, ADO.NET, VB.NET, C#), Hyperion Essbase and Oracle.

**Electronic Data Systems, Herndon, VA**

**September 98 – June 04**

**Senior Consultant**

Worked on an asset tracking application for Department of State. This application is used for tracking computer-related assets worldwide for the Department. Used UML for design and .NET based Microsoft web technologies for application development. Used context based Microsoft Treeview web control. Designed database and wrote stored procedures and DTS packages for SQL Server.

Developed several web applications and managed web servers for United Negro College Fund. Gathered requirements, analyzed, designed, developed, tested and implemented solutions. Developed an automated system to process acknowledgement letters in Visual Basic with Oracle as back-end. Worked with ASP, Visual Basic, VBScript, JavaScript, SQL Server, Oracle, ADO, ODBC, IIS 4.0 and 5.0, Index Sever, Windows NT and Windows 2000.

Worked aon conversion of a large-scale application (TRACE) from mainframe environment to web-based for Department of Veteran Affairs. Used primarily Microsoft web technologies (ASP, Visual Basic, VBScript, JavaScript, SQL Server, ADO, ODBC, IIS, and Windows NT).

**Digital Equipment Corp., Greenbelt, MD**

**February 97 – August 98**

**Consultant**

Worked on development of a website for U.S. Postal Service. This website allows users to fill in airbill, compute postage, check addresses and make payments for Express Mail and Priority Mail packages. It can also be used to find nearest drop-off locations or schedule pick-up for the packages. Used Active Server Pages, Visual InterDev, and FrontPage for HTML and server-side scripting in Windows NT environment.

**Mystech Associates, Manassas, VA**

August 96 - November 96

Software Developer

Worked in software development for a Telemedicine project. This application provided a desktop system for interactive multi-site audio and video teleconferencing and store-and-forward capability. Developed code for managing responses to consults, zooming in/out on overlay for shared images and lossless compression for media files. Used Java, JavaScript and C programming languages in Windows NT environment.

Lockheed Martin Energy Research, Oak Ridge, TN

**July 1994 - July 1996**

**Research Staff**

Worked on the development and parallel implementation of CHAD and ProCAST software packages. These software packages are used for heat transfer and fluid flow simulations. Used High Performance Fortran and C languages for parallel implementation on SGI Power Challenge and INTEL Paragon multiprocessors. Developed a module for simulating radiation heat transfer for gray surface enclosures.

**Universite de Catholique, Louvain-la-neuve, Belgium**

Sept 1991 - Dec 1993

Worked on the development and parallel implementation of POLYFLOW software package. This code was implemented on 128-node INTEL iPSC/ 860 and CONVEX Meta Series message-passing parallel computers. Used Intel NX and PVM libraries for inter-processor communication. Developed algorithms for balancing load and evaluated their performance.

Columbia University, New York, NY

Sept 86 - August 91

Developed computer programs for multi-processor machines using numerical algorithms for solution of linear and nonlinear problems in computational mechanics.

**Educational Qualifications:**

Ph.D**.,** Computational Science, Columbia University, New York May 1991

MS, Structural Engineering, Indian Institute of Science, India January 1986

BS, Civil Engineering, University of Delhi, India July 1984

**Training:**

Big Data Specialization Certificate, University of California, San Diego March 2016

Machine Learning Certificate, University of Washington, Seattle February 2016

Cloudera Developer Training for Apache Hadoop November 2013

Designing Business Intelligence Solutions with SQL Server 2012 April 2013