SENIOR SOFTWARE ENGINEER/DATA MANAGER
Senior Software Engineer

Summary

Senior Software Engineer with 26+ years of experience as an enterprise-level database web applications developer, technical lead, and project manager. Expert Microsoft SQL database administrator with SQL server integration services (SSIS) and SharePoint experience.
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Proven leader and strategic thinker, able to architect cutting-edge software solutions and lead development teams through the entire software development life cycle (SDLC). Â Recipient of NASA's Space Flight Awareness Honoree award for significant contributions in the preservation and management of Lunar sample data. Â

Skills

- Databases: Microsoft SQL Server 2000-2014, MongoDB, MySQL
- Languages: SQL, Microsoft .NET C# and VB, ColdFusion 11, Java, JavaScript, PowerShell, Python, C/C++.
- Development Tools/Methodologies: SDLC, Agile & Waterfall Methodologies, Object Oriented Programming (OOP), Application Programming Interfaces (API), MVC, Visual Studio, Eclipse, Git, Subversion, UML, SSIS, SSRS HTML5, CSS, SASS/LESS, web services, REST, jQuery, Bootstrap, Accessibility/508 Compliance, Website Security, UX Design,
- Graphic Design/Multimedia:
- Adobe Creative Suite CC: Photoshop, Illustrator, InDesign, Dreamweaver, Premiere Pro, Lightroom. Inkscape.
- Software:
- Adobe Acrobat Pro, Microsoft SharePoint, Visio, and Project, R.

Experience

Senior Software Engineer/Data Manager 01/2007 to Current Ssi Schaefer Systems International North America Columbus , OH

- Designed and developed web database applications to showcase NASA-curated astromaterials sample collections, including comprehensive, searchable databases with sample processing and availability information, scientific analyses, references, and multimedia (photos, 3D models, videos) for use by space and planetary scientists.
- Technologies used included Adobe ColdFusion, Microsoft .NET C#, JavaScript/JQuery, SVG, REST, various APIs, and Microsoft SQL, among others.
- Architected, managed, and developed internal Enterprise-level databases and applications using both traditional waterfall and agile methodologies.
- Led teams of 2-5 developers and interns, both internal and in distributed teams, and provided technical mentorship.
- Significant expertise as database architect and administrator with experience creating SQL server integration services (SSIS) and reporting service (SSRS) solutions and optimizing query performance.
- Regularly employed scripting technologies, such as PowerShell and Python to implement work automation and provide data visualization.
- As webmaster for the directorate public websites, was a recognized expert in all aspects of website management, including the administration of IIS and Apache web servers, ColdFusion and Java application servers, and SQL servers.
- Maintained adherence to NASA and government standards and regulations (accessibility/508 compliance, information privacy, website/application security).
- Developed and maintained relationships and collaborations within NASA and global research and technology communities that leveraged cross-functional expertise to improve the quality and accessibility and transfer of scientific data and support NASA's Open Data initiatives.

IT Consultant 01/2001 to 01/2007 Splunk Aldie , VA

- Windows 10, Windows Server 2003 - 2012 R2, Linux, IIS 7.5/8, Apache, ColdFusion Server Designed and developed custom e-commerce and informational websites for small to medium-sized clients using various technologies, including Adobe ColdFusion and Flash, Microsoft Visual Basic and ASP, Java, JavaScript, MySQL, and Microsoft SQL, on Apache/Linux and IIS/Windows systems.
- Provided website management and system administration services to consumers and small businesses.
- Coordinated full range of project development, from initial proposal to final delivery.

IT Program Manager 01/1998 to 01/2001 Polar Tank Houston , TX

- Managed enterprise software projects with budgets in excess of $3M, which were consistently completed within budgetary and time constraints.
- Prepared proposals, managed budgets, and developed business system requirements and functional specifications for proposed projects.
- Supervised 10+ business analysts, project managers, application developers, and contractors during entire software development lifecycle.
- Designed and implemented relational and OLAP databases for integration with web applications and developed middle-tier components using Microsoft Visual Basic, ASP, ADO and COM/COM+ technologies using the Microsoft Visual Studio IDE and SQL Server 2000 with Analysis Server.
- Experienced using ERWin Data Modeler and UML for database design.
- Successfully completed global implementation of wide area networks and computer installations in 20+ international locations by directing internal resources and local and international external vendors.

DSP Marketing Programs Manager 01/1994 to 01/1998 TEXAS INSTRUMENTS City , STATE

- Designed and implemented intranet/extranet web applications for the sales organization, customers, and product distributors that greatly reduced marketing, support and training costs for the division.

- Web applications were implemented in C and Perl on a UNIX platform for the NCSA Mosaic browser and for Netscape Navigator.
- Managed team of 3-4 developers.

Technology Transfer Team Leader 01/1993 to 01/1994 SEMATECH City , STATE

- Managed an average of 30 projects a month for the Lithography division to fulfill technology transfer requirements of consortium.

Design Engineer 01/1991 to 01/1993 IBM CORPORATION City , STATE

- Designed 486-based computer motherboards and peripheral interfaces for IBM's PC Value Line.

Education and Training
M.S : Electrical Engineering 1991 Solid State Devices & Circuits University of Michigan City , State Electrical Engineering
Skills
Microsoft .NET, 3D, ADO, Adobe Creative Suite, Adobe Acrobat, Adobe, Dreamweaver, Photoshop, Premiere, Agile, Apache, API, ASP, automation, budgets, C, ColdFusion, COM, COM+, CSS, clients, data visualization, database applications, Databases, database architect, database design, delivery, directing, e-commerce, Eclipse, ERWin, extranet, Flash, functional, government, Graphic Design, UX, HTML5, IBM, IDE, IIS, IIS 7.5, Illustrator, InDesign, Java, JavaScript, JQuery, Linux, marketing, C#, Microsoft SharePoint, Microsoft SQL, SQL Server 2000, Windows, 2000, MongoDB, motherboards, Multimedia, MVC, MySQL, Enterprise, Netscape Navigator, networks, Object Oriented Programming, OOP, OLAP, Perl, Programming, project development, proposals, proposal, Python, quality, reporting, research, sales, scientific, SDLC, servers, scripting, software development, Microsoft SQL Server, SQL, SQL server, system administration, UML, UNIX, Visio, Microsoft Visual Basic, VB, Microsoft Visual Studio, Visual Studio, Web applications, web servers, Web Development, Website, websites, website management, webmaster, Windows Server, 486
Additional Information

- AWARDS JETS Superior Performance Team Award: 2014 - Apollo Sample Curation Team NASA Group Achievement Awards: 2014 - Apollo Sample Curation Team 2013 - Hayabusa Curation Team & Stardust Interstellar Curation Team JSC Director's Innovation Group Achievement Award: 2013 - Antarctic Meteorite Curation Team NASA Space Flight Awareness Awards: 2009 - Honoree
- GRANTS 2016, NASA PDART, Co-PI "Creating and Serving Novel Data Products of Astromaterials: Combining Image-Based 3D Reconstructions and X-Ray CT Data of Astromaterials" 2015, NASA PDART, Co-PI "MoonDB: Restoration and Synthesis of Lunar Petrological Data"