

# John D. Stoops – Software Architect

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## SUMMARY

12 years' experience gathering business requirements, creating analysis/design documentation with UML, and leading software development teams. I'm a very motivated individual who enjoys solving complex problems and designing elegant solutions, including integrating disparate systems with Web services, creating rich interfaces for legacy systems, and developing a wide range of commercial, publicly accessible Web sites with e-commerce and content management solution (CMS) capabilities. See [Linkedin.com/in/jstoops](http://Linkedin.com/in/jstoops) for references and [www.LeafDev.com](http://www.LeafDev.com) for site portfolio.

I'm a legal citizen of both UK and USA living in Roanoke, VA USA. I'm willing to work locally, travel and meet clients on-site for requirements gathering, joint application development (JAD) and training sessions.

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## COMPUTER SKILLS

### Languages

- 7+ years: C#, ASP.NET, Web Services, UML, SOAP, AJAX, Visual Basic (VB) 6, VB.NET, VBA, ASP, JSP, PHP, ODBC, ADO.NET, VBScript, JavaScript, XML, XSLT, HTML, DHTML, XHTML, CSS, PL/SQL, T-SQL
- 2+ year: ActionScript 3.0, MXML, Flex Framework, Java, C++, Cold Fusion, COM, PERL, CAML

### Software

- Applications: MS SharePoint (MOSS 2007, WSS 3.0), MS Visual Studio (6, 2005-8), Flash 9.0, Flex Builder, MS Office, Project & Visio (97, 2000-7 & XP), Crystal Reports (8-XI), MS SQL Reporting Services, Photoshop, Enterprise Architect, RedDot, GoldMine, Dundas Graphs, Dreamweaver, Homesite, Eclipse, JDeveloper, Drupal, Joomla!, DotNetNuke (DNN), Kentico, Znode, VirtueMart, ASP.NET Storefront, QuickBooks
- Systems Software: MS SQL Server, MS Access, Oracle, MySQL, PostgreSQL, Sybase Advantage DB Server, MS Windows (3.11-2000, XP, Vista), MS Windows Server (2000-8, NT), MacOS, Internet Information Services (IIS), Apache, Apache Tomcat, JBoss

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## EXPERIENCE

### Consultant / Software Architect / Web Developer

03/09-Present

*LeafDev, Alexandria, VA 22312, USA*

Environment: UML, C#, ASP.NET, VB.NET, PHP, AJAX, Web Services, SQL Server, Oracle, MySQL, XML, XSLT, MS Office, HTML, CSS2, WSS 3.0, MOSS 2007, Visual Studio 2005-8, MS SQL Reporting Services, Enterprise Architect, Drupal, Joomla!, DNN, Kentico, VirtueMart, Salesforce, QuickBooks.

Providing software architecture design, custom software development, install/setup/customization of CMS and SharePoint, enterprise systems integration, legacy system interfacing, and rich internet applications (RIA) to various customers.

Current projects through LeafDev:

- **Rental Reservation System (RRS) (not live):** Designing overall architecture for RRS in UML using latest technologies to build the app in: .NET Framework 4, MS SQL Server 2008, AJAX and Entity Framework. Multiple front-end property marketing sites designed for HTML5 and CSS3 integrated with RRS and partners through Web services, REST and XML feeds with identity management. Current version of RRS available online is built using PHP, MySQL, XML feeds and JQuery.
- **Hub4Health, PikStik and PikStik Resellers Portal for Reid Industries:** designing overall architecture and implementing IT infrastructure using Znode ecommerce platform, ASP.NET, .NET 3.5 and Web services to integrate with QuickBooks and suppliers. Creating multiple themes for each store running off same platform, each with a unique URL, look & feel, page content and product catalog.
- **PHP and .NET Development for Colonial Parking:** Taken over maintenance of all their custom software systems, including bug fixes, developing new functionality and integrating new commercial systems. Integrating back office systems with front-end site (WordPress) and iPhone application.
- **PikStik Web Site and Storefront for Reid Industries, Inc.:** Using DNN CMS with Flash presentation for PikStik product site and ASP.NET Storefront (ADNSF) shopping cart solution for direct sales site. Also, building custom e-commerce platform using Znode for multi-storefront business venture.

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**Systems Analyst / Software Architect / Developer / Tester**

07/06-07/10

*Tetra Tech, Inc., Fairfax, VA 22030, USA*

Environment: UML, C#, ASP.NET, VB.NET, AJAX, Web Services, SQL Server, Oracle, Java, JSP, XML, XSLT, MS Office, HTML, CSS2, Crystal Reports XI, WSS 3.0, MOSS 2007, Visual Studio 2005-8, MS SQL Reporting Services, Photoshop, Enterprise Architect.

Lead analysis and design for U.S. Environment Protection Agency (USEPA), U.S. Navy, Department of Energy (DOE) and State Water Board projects. Technical lead and developer for all .NET and SharePoint projects, ensuring timely delivery of development tasks. 10% rise in pay first year and 25% rise in second.

- **Water Quality Monitoring (WQM) Data Flow System for Texas Commission on Environmental Quality (TCEQ)**: analyzed requirements and designed data flow system using UML diagrams to communicate behavior, architecture, and realization of components implemented in Java. Used a model and test-driven approach in line with unified process (UP) and agile practices to manage development effort and comprehensive test strategy. The Surface Water Quality Monitoring System (SWQMIS) is used to enter Water Quality Management (WQM) data in an Oracle database that is submitted to USEPA's Central Data Exchange (CDX) system via Web services in XML format conforming to a specific set of CDX compliant XML schemas and data validation rules. Also part of team responsible for updating design documentation and testing SWQMIS.
- **Coral Triangle Initiative (CTI) for USAID**: technical lead for development team planning, designing and building SharePoint application used in Philippines to collaborate on various initiatives to protect coral reefs. Includes custom Web part using Google maps and a backend Geographic Information System (GIS) using ArcGIS Server for spatially-enabled project information, a custom Web part to replace SharePoint's document library for more ease of use and publishing documents to other sites and MS SQL Reporting Services reports using Web services to pull data from SharePoint lists.
- **ALA-WADR for Alabama State**: technical lead for .NET development team adding functionality to existing multi-tier ASP.NET application for collecting and analyzing fish and macroinvertebrate samples.
- **Dynamic Document System (DDS) for Naval Facilities Engineering Command (NAVFAC)**: Systems Analyst, Business Workflow Developer, and .NET Developer on project customizing enterprise DMS using Laserfiche with custom business process applied for developing the US Navy Marine Resource Assessments (MRA) document and extensible content types for other documents.
- **Forest Information Management (FIMS) for Camp Lejune and Marine Corp**: accepts entry of forest inventory data collected from the base's forests calculates forest product metrics available as reports. Systems Analyst and Technical Lead on system developed using ASP.NET, .NET Framework 3.5 with ASP.NET MVC and LINQ to SQL to provide object-relational mapping (O/RM) of the SQL Server 2005 database. Report developed using SQL Server 2005 Reporting Services.
- **SharePoint Intranet for Tetra Tech's Information Technology and Modeling Services Group (ITMSG)**: technical lead implementing the office's Intranet site built using MOSS 2007 which includes documents libraries, Wikis for knowledge bases, custom views of lists using Web services, custom XML and XSLT data views, and custom work flows for projects. Leading development team planning, designing, building, and administrating SharePoint site and sub sites.
- **eNOI eReporting for United States Environment Protection Agency (USEPA) Office of Waste Management (OWM)**: lead analyst and designer for the eReporting module which is part of the eNOI system - online electronic permit application system. eNOI allows construction site operators to apply for coverage under EPA's NPDES storm water Construction General Permit (CGP) and for industrial facilities covered by EPA's Multi-Sector General Permit (MSGP). The requirements were gathered in joint application development (JAD) sessions with key stakeholders and users, analyzed using various agile and Unified Process (UP) compatible techniques to design business process workflow, use cases and scenarios, logical data models and documentation of non-functional requirements. The design was documented in the form of diagrams compliant with latest UML. Ensured electronic signatures and permit encryption complied with CROMERR check list standards.
- **Check-Up Program for Small Systems (CUPSS) for USEPA Office of Ground Water and Drinking Water (OGWDW)**: selected appropriate technology and system architecture through proof-of-concept studies for multi-platform, free asset management tool. Lead tester and configuration manager for build phase of CUPSS desktop application that's an electronic mechanism for tracking and planning basic facility operations, maintenance activities and long term asset management. CUPSS provides asset inventory, planning and preventive maintenance and financial planning components for

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small drinking water utilities. Test plan includes the testing strategies, test cases, and expected results used to test system.

- **Comment-Response System (CRS) for Department of Energy (DOE):** functional lead and configuration manager for system that manages the comment-response process and generates scoping reports and environmental impact statements (EIS). The SDLC followed an approved set of processes that ensure quality in the development of the system and Enterprise Architect was used to document design that met strict QA procedures during the DOE audit.
- **California Water Quality Assessment (CalWQA) System for State Water Resources Control Board (SWRCB):** lead analyst and designer for system that collects lines of evidence (LOE) on water body impairments in state of California. Allows regional boards to make decisions on LOE for SWRCB and USEPA to approve and create 303(d) and 305(b) listings for public and USEPA Integrated Report.
- **California Integrated Water Quality System (CIWQS) for USEPA:** responsible for gathering business requirements from EPA and various water boards in California. Then translated requirements into designs for developers and database administrators (DBAs) to create Web-based reports from WQM data held in CIWQS using Java, PL/SQL and Oracle.

### Software Analyst / Web Developer

09/05-07/06

*Confi-Chek, Inc., Sacramento, CA 95811, USA*

Environment: UML, ASP.NET, C#, AJAX, Web Services, XML, XSLT, SQL Server 2000-2005, Reporting Services, Visual Studio .NET & 2005, Indigo, Design Patterns, HTML, DHTML, IIS (5 & 6), Windows Server 2000-3, Enterprise Architecture, MS Viso & Office (2000 & XP).

Performed business analysis and software design using CASE tool for creating UML diagrams to communicate with business managers and other developers in line with eXtreme Programming (XP) process. Implemented systems in C#, ASP.NET, SQL Server, SQL Reporting Services, and Web Services.

- **Public record search platform:** Designed overall architecture, enhanced search functionality, and added visitor tracking for multiple Web sites providing public records search capabilities using C#, ASP.NET, and Web Services. Sites targeted different audiences, such as public searching for friends and companies needing background checks on employees, hence need for common application framework and multiple front-ends. System met current design standards and used latest technology by utilizing design patterns like Model-View Controller (MVC) and Indigo messaging framework (now known as the MS Windows Communications Foundation- WCF). Innovative use of WCF combined with AJAX for providing search-as-you-type results.
- **E-marketing Web tool:** designed and implemented system in ASP.NET and MS SQL Server with advanced sales tracking integrated with front-end public records search sites. Enabled staff to create email marketing campaigns that automatically send custom branded emails, newsletters, offers and discounts to prospects and existing customers by intelligently selecting relevant promotions based on visitor tracking data and past purchases. Made an additional \$200K for Confi-Chek, Inc. within 3 months of launching first email marketing campaign.

### Consultant / Software Architect / Systems Analyst / Web Developer

01/03-09/05

*Camborne & Bath, UK*

Environment: UML, XML, SQL Server 2000, Access (97, 2000 & 2002), MySQL, ODBC, ADO.NET, ADO, OLE DB, Visual Studio .NET, COM+, ASP.NET, VB.NET, VBA, ASP, JSP, PHP, VBScript, JavaScript, HTML, DHTML, XHTML, CSS2, IIS (5 & 6), Windows Server 2000, Crystal Reports, Dundas Graphs, GoldMine, MS Office automation, Photoshop, Search Engine Optimization (SEO) tools, Enterprise Architect, MS Project & Office (2000 & XP).

I worked on various government and commercial contracts providing systems analysis, Web development services and custom desktop software solutions.

- **Waste Recycling Web site for European (EU) Environment Agency (EA):** lead analyst and designer in producing detailed design documentation (including UML diagrams in Enterprise Architect) and development plans for system allowing businesses to search for waste recycling facilities in their area. The system was created for Agricultural Waste Stakeholders' Forum that included Department for the Environment, Food and Rural Affairs (DEFRA), UK EA, National Farmers Union, and other organizations from which requirements were gathered. Web development team leader implementing

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multi-tier system with ASP.NET, VB.NET, and SQL Server.

**Chief Programming Officer / Web Developer** 02/01-07/03

*Nuera Ltd., Redruth, UK*

Environment: UML, XML, Access (97 & 2000), MySQL, dBase, PostgreSQL, ODBC, Jet, ADO, Visual Studio 6, VB6, VBA, ASP, PHP, VBScript, JavaScript, HTML, DHTML, CSS2, IIS, Apache, Windows Server (2000 & NT), Crystal Reports, GoldMine, MS Office automation, Photoshop, Dreamweaver, Homesite, NuSphere, Search Engine Optimization tools, Project, Office, Visio, Reddot.

Provided all training, support, Web site, custom software, Intranet, and Web script development services for the company and to their clients.

**Consultant / Systems Analyst / Web Developer** 06/00-01/03

*London, Bath & Poole, UK*

Environment: Access (97 & 2000), ODBC, Jet, ADO, Visual Studio 6, VB6, VBA, ASP, VBScript, JavaScript, HTML, DHTML, CSS2, IIS (4 & 5), Windows NT, MS Office Automation, Photoshop, Project, Office.

Consultant providing services ranging from building custom back office software solutions (Web site review and news sector summary system) to developing company Web sites (online photo gallery, accommodation availability Web site, council contact solution, online credit card processing). All projects were self-managed using a range of traditional analysis and design techniques.

**IT Technician / IT Consultant (Industrial Placement for Bachelor's)** 05/99-08/99

*Express Personnel, Redding, CA 96002, USA*

Environment: Access, ODBC, ADO, Visual Studio 6, VB6, VBA, PERL, Cold Fusion, VBScript, JavaScript, HTML, Windows NT, Crystal Reports, MS Office, Photoshop, Corel Draw, Office.

**Programmer (Industrial Placement for Degree)** 07/98-04/99

*Robbins (Marine) Ltd., London, UK*

Environment: Access 97, ODBC, Jet, ADO, Visual Studio 6, VB6, VBA, Windows 98, MS Office Automation.

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## LINKS

Full professional experience, work history, achievements, and portfolio of work available at:

- [ITArchitectOnline.com](http://ITArchitectOnline.com)
- [LinkedIn.com/in/jstoops](https://www.linkedin.com/in/jstoops) (see references)
- [LeafDev.com](http://LeafDev.com)

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## EDUCATION

**Colorado Technical University Online** 2005-2006

- Completed first 2 courses of the MSM Business Management program.
- Accredited by the Higher Learning Commission and a member of North Central Association.
- Gained a 4.0 GPA on all courses completed (e-Business Strategies and Leadership) but stopped to work full-time at Confi-Chek, Inc.

**University of Plymouth** 2001-2002

- Certificate for successfully completing a software development project.
- Government subsidized program for companies in Cornwall provided Nuera Ltd. 50% of salary.

**University of Bournemouth** 1996-2000

- B.S. (Hons), Software Engineering Management
- Accredited by British Computer Society with year in Industrial Placement (see Experience).
- Specialized in: Artificial Intelligence (AI) and Distributed Object Computing.
- Other subjects: Requirements Engineering, Software Design, Development & Implementation, Systems Architecture, Databases, Computing Law, Mathematics, Human-Computer Interaction, Business Management, and Accounting.