

KENNETH B. SALL

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HIGHLIGHTS OF QUALIFICATIONS

- Experienced Senior XML Data and Systems Analyst, with special background in Federal Enterprise Architecture (FEA).
- Over 23 years of computer experience with concentration in Web technology and standards development. Over 13 years of Web development experience.
- Expertise in XML and data standards important to the Intelligence Community such as IC MSP, IC ISM, NIEM and Universal Core.
- Author of comprehensive XML textbook, *XML Family of Specifications: A Practical Guide*. Excellent researching, development, and technical writing skills, with deep knowledge of most aspects of XML and related technologies.
- Over 10 years of XML experience, including XML Schema, DTD, RDF, OWL, RSS, Atom, XQuery, SPARQL, SKOS, XHTML, DOM, SAX, XSLT, XSL-FO, and SVG.
- Technical Lead on Rich Internet Application (RIA) investigation of Ajax (Asynchronous JavaScript and XML) technology.
- Developed an IC XML Schema for expressing LGU relationships. Used XQuery and KML to display terrorist information.
- Key contributor to the FEA Data Reference Model (DRM) and the Federal XML Naming and Design Rules (NDR) and Guidelines.
- XML specialist for two eGov Initiatives, working in GSA eGov Program Management Offices.
- 3 years each of Java and C++, 7 years of X Window System and Motif development, and 2 years JavaScript programming.
- Developed and taught three-day XML Core Technologies training course for NASA. Numerous government and XML conference presentations.
- Previously active participant in several government XML-related working groups and communities of practice.
- Masters degrees in Computer Science. Additional skills in education and training due to ME Special Education degree and 6 years teaching experience.

SECURITY CLEARANCE

Current: DoD **Top Secret**

CAREER CHRONOLOGY

2006 – 2009 SAIC, Arlington, VA – Senior XML Data and Systems Analyst

Developed IC XML Schema for expressing relationships and XQuery of terrorist information using both standard W3 XQuery 1.0 and extension functions, as well as Google's KML. Technical Lead on Rich Internet Application (RIA) investigation including inter-widget communication and thin client deployment. Piloted RIA investigation of three Ajax frameworks: Adobe AIR, JackBe Presto, and Dojo Toolkit. Effectively used Semantic MediaWiki technology to aid in collaborative efforts for IC customer. Worked with Eclipse and Blackbook. Task Lead on Blackbook experimentation effort.

2005 – 2006 SAIC, Reston, VA - XML Data and Systems Analyst

Formed and co-led XML Schema Interoperability Working Group (XSIWG) for Data Architecture Subcommittee (DAS) of the Architecture and Infrastructure Committee of the Federal CIO Council. Active member of the Federal Enterprise Architecture Data Reference Model (FEA DRM) Working Group, contributing to a large portion of the DRM version 2.0, delivered to OMB. Presented twice to the FEA DRM Working Group: “XML Introduction with DRM Focus” and “Guided Tour of Recreation.gov DRM Instance”.

Co-led working group of senior technical personnel for XML Naming and Design Rules (NDR) and Guidelines. Wrote an Intelligence Community Metadata Working Group (IC MWG) staff position paper that helped prevent the NDR effort from interfering with IC MWG XML efforts. Worked with contractors from many companies as well as representatives from many government agencies: DoD, IRS, DoJ, Dept. of State, EPA, NIST, Interior, NASA, Education, as well as various contractors from LMI, BAH, and MITRE. Gave four technical presentations to the IC MWG. Contributed to IC MSP (Metadata Standard for Publications) and IC ISM (Information Security Markings).

Wrote white paper for the IC MWG entitled “RSS and Atom Considerations: Moving Toward Atom” on Really Simple Syndication (RSS) and Atom Syndication Format. Contributed to the National Information Exchange Model (NIEM) effort by participating in multi-day workshops and providing extensive feedback on the NIEM CONOPS. Reviewed a number of IC Enterprise Architecture documents. Wrote a white paper entitled “Recommendations for the IC Metadata Registry” (unpublished). Research activities include XQuery, RSS, Atom, SMIL, SKOS, and other XML technologies.

2002 – 2005 SiloSmashers, Vienna, VA – XML Specialist

XML Specialist in the PMOs of two GSA eGov Initiatives, Integrated Acquisition Environment (IAE) and eTravel Service, part of the President's Management Agenda. Responsible for establishing XML guidelines and providing detailed reviews of all XML Schema submitted to IAE, and evaluation criteria for eTravel.

For the eTravel eGov Initiative, planned, coordinated and led a focused two-day data normalization working group comprised of over 30 senior technical personnel and data stewards from 17 government agencies and departments. Achieved goal of standardizing over 200 travel-related data elements for use in the proposed government-wide eTravel service. Work product was incorporated into the eTravel RFP. Major contributor to the [IAE Standard Transactions Vocabulary](#), a normalization of hundreds of procurement data elements.

2001-2002 Columbia, MD – Independent XML Consultant

Developed three-day XML Core Technologies course for NASA, covering XML and DTD syntax, SAX, DOM, XML Schema, CSS, XSLT, XPath, XSL Formatting Objects, XLink, XPointer, XHTML, SOAP, and SVG. Taught over 80 NASA civil servants and contractors at NASA/GSFC and NASA/WFF.

Wrote XML book for Addison-Wesley, [XML Family of Specifications: A Practical Guide](#), ISBN 0-201-70359-9, covering XML syntax, DTDs, XML Schema, DOM, SAX, JAXP, JDOM, CSS, XSLT, XPath, XLink, XPointer, and XHTML. Used as textbook at UMBC.

Thought leader for Federal XML Community of Practice. Developed and presented a series of demonstrations using XSLT, XHTML, and DTDs.

1999-2001 Commerce One, Columbia, MD – XML Specialist

XML consultant on projects such as Clicklogistics, World Bank, EMI Records, and UCCnet. XML strategist for large Amazon-like commercial web site development. Responsible for portions of XML approach, specifying the XML-related guidelines and software to be used, and developing a dozen DTDs based on specific EDI business needs.

1989-1999 **AppNet / Century Computing, Laurel, MD – Sr. Software Engineer**
1985-1989 **Unisys, Downingtown and Paoli, PA – Software Engineer**

EDUCATION AND TRAINING

M.A., Computer and Information Science, Temple University
M.E., Special Education, Temple University
B.A., Psychology, State University of New York at Buffalo

ASSOCIATIONS

Invited contributor to the Data Architecture Subcommittee of the Architecture and Infrastructure Committee of the Federal CIO Council. Former member of the UBL Technical Committee. Active participant in Federal XML Community of Practice, Semantic Interoperability Community of Practice, and Washington Area SGML/XML Users Group. “Friend” of The XML Guild.

RECENT PUBLICATIONS

- [XML Family of Specifications: A Practical Guide](#), Addison-Wesley, 2002.
- [How the US Federal Government is Using XML](#), XML 2003 and [XML 2004](#) papers.
- [Integrated Acquisition Environment \(IAE\) Summary XML Guidance](#), 2004.
- [Implementing a Government-wide Semantic Solution to Thesauri](#), XML 2005 (with Ron Reck).
- [RSS and Atom Considerations: Moving Toward Atom](#), 2006. [copy available upon request]
- [Applying XQuery and OWL to CIA World Factbook, Wikipedia and Project Gutenberg](#), 2006 (with Ron Reck).
- [Sentiment Analysis in Open Source Information for the USG](#), 2008 (with Ron Reck).
- Seven presentations for Federal XML CoP appear on the [XML.Gov](#) site. (Search for “Sall”).

OTHER DISTINCTIONS

Recognized by the CIO Council in their December 2005 letter of appreciation to DNI Chief Architect Bryan Aucoin (cc: Gen. Meyerrose, ADNI CIO) which cited Mr. Sall specifically for his “contributions to the development of the [FEA DRM] glossary were exemplary.”

Presented at international technical conferences including: XML 2003, 2004, 2005, 2006 and 2008.

Maintained the [Motif FAQ](#) for nearly three years. Creator of WDVL.Internet.com [XML reference section](#).

Former teacher of Special Education in the Philadelphia, PA area for 6 years.

Personal site: [kensall.com](#) includes original [Big Picture](#) imagemap of the XML family of specifications.

Webmaster of the [Columbia Ski Club](#) since 1995, the fourth ski club in the world on the Web!