

Ronald Paul Reck

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CORE SKILLSET

Operating systems: Most POSIX System V and BSD variants (UNIX) - Sun Solaris/SunOS, *BSD, Linux

Databases: MySQL, Oracle, PostgreSQL, SyBase, BDB, DBM, Parka

Languages: Perl, C & Bourne shells, PHP, Tk, Java, Sed, AWK, SQL, Pascal, C, Basic, LISP, Prologue

InterNet & Web expert: Perl, CGI, HTML, XML/RDF/OWL, CSS, Javascript, search engines, database, intelligent agents, security, firewalls, IPTables, data conversion, squid cache.

Entire GNU UNIX: Shell, shell scripting, administration, security, tuning, disk management, application development, full software life cycle, technical documentation, service level agreements, content management, knowledge representation.

Member: W3C GRDDL working group, invited expert status.

Clearance: Top Secret / SCI (Current)

EDUCATION

EASTERN MICHIGAN UNIVERSITY

Master of Arts - 04/07

- Linguistics - Computational linguistics, morphology/syntax, theoretical syntax.
- Natural Language Processing, computational & rule based algorithms, information theory.
- Syntactic parser in Perl, verb phrase structure, cross-cultural temporal abstraction, semantics.

WAYNE STATE UNIVERSITY

Bachelor of Arts - 06/92

- Linguistics - theoretical syntax, GB & TG syntax, morphology, semantics.
- Psychology, Philosophy, Chemistry, Biology, Literature, English.

WORK EXPERIENCE

Collexis Inc.

Chief Technology Officer- Americas~ 02/07 -Present

- Responsible for product packaging and delivery throughout North America.
- Promoted SKOS compliance as a supported format.
- Forged an enterprise approach to thesaurus management.
- Responsible for new domain thesauri:
 - Aviation, Vehicles, Weapons, Geographic Entities, Gangs, Nationalities, Races

RRecktek LLC.

Factiva

Consultant ~ 11/06 -Present

- Designed RDF capability for Synaptica Knowledge Management Tool.

Intelligence Community Metadata Working Group Staff

Senior Software Engineer ~ 1/05 – 10/06

- Tasking under Executive Order 13356.- Technologies include XML, RDF, OWL, XSLT, VMware, Authority Files, Requirements, Design, Development, Security, COTS, Validation, Standards.
- Develop Strategies and Standards for data sharing for 16 Intelligence Communities.
- Technical Lead for Controlled Vocabulary Management System.

Technical Lead ~ 11/04 – 9/05

- Seattle LInX Project for Naval Criminal Investigative Service – Data warehouse of law enforcement data from a plethora of agencies. Brought in a team of contractors to re-architect and implement J2EE application front ended by Tomcat, Sun Application Server, Web Logic. Technologies include XML, SVG, BPML, L&C, MS Windows, PVCS, Ulytix, Oracle, Sun Solaris, Intalio, Initiate, OpenSTA, Quality Control, UAT,SSL, Certs.

Science Applications International Corporation

Senior Software Engineer ~ 03/03 – 12/04

- Re-Engineered 100+ node network and all supporting services – NFS, NIS, DNS, Raptor Firewall, HTTP, NetScreen VPN, CVS, Clearcase, Ntop, AMANDA. Redhat, Solaris, IRIX.
- Integration and testing of all major components of Terrorist / Total Information Awareness (TIA) Software components.
- Created comprehensive documentation for the implementation of Structured Discovery Thread – Analysis of unstructured data – Latent Semantic Indexing, JBoss, JMS, RSS, Oracle, data conversion, metrics.
- Proposed environment and security standards for RDEC Program Redhat AS systems.
- Designed and implemented application for semantic analysis of unstructured data using Tokenization, Stemming, Self Organizing Maps, and Wordnet:: Similarity in Perl.
- Created tool to convert XML Topic maps and RDF into Scalable Vector Graphics.
- Designed and Developed NISPOM security compliance strategy adopted by Future Combat Systems.

University of Maryland, Institute for Systems Research

Project Leader – MINDLAB/MINDSWAP (mindswap.org) ~ 02/02 – 03/03

- Designed and deployed web site using PHP & Redland RDF Application Framework.
- Created online search engine for searching across the DAML ontology library.
- Created Windows software for converting Excel spreadsheets into RDF format.
- Designed and deployed entire online infrastructure.
- Designed and deployed complex data conversion procedures for Parka database.
- Attained World Wide Web Consortium membership status.
- Prepared Parka research for presentation at First International Semantic Web Conference (ISWC).

ITisOpen (Optimally Open Solutions Inc.)

Director of Web Architecture ~ 05/01 – 02/02

- Designed process for web publication from Adobe Framemaker.
- Designed and implemented corporate Intranet.
- Designed, documented and implemented 2 tier web publication architecture.
- Designed and implemented search engine for Mailman (mailing list software).

Winstar Communications Inc.

Principal Information Architect ~ 07/98 – 03/01

- Designed and implemented complex system and process for the publishing of technical information.
- Designed and implemented scalable system for web representation of infrastructure topology.
- Drove corporate data standards – WWW publishing standard, Network File and Directory Naming.
- Designed and coded scalable robust solutions for textual navigation and organization.
- Firefighting, Y2K network readiness, Collector, billing systems, contract/document management.

- Perl 5, Sun & Solaris, BMC, Linux, BSD, Samba, TCPD, Apache, GNU toolset, Python/Zope, Frontpage97, Frontpage98, Word 7.0 & 7.0a, Excel 7.0, Excel 98, Word 98, AutoCAD R14, Paintshop Pro, Adobe Photoshop.

The Allied Group Inc.

Systems Engineer ~ 08/99 - 03/00

- Earned Sun Enterprise and Workgroup Certification, BMC Patrol Certification.
- Sun high-availability Oracle cluster tuning.
- Corporate Intranet lead architect (170 sites), WWW standards and content management.

Electric Press Inc.

Enterprise Architect ~ 11/98 - 01/99

- Designed and implemented system for making snapshots of operating environments.
- Designed migration path for re-engineering infrastructure - security, network, backups.
- Configured and installed Sendmail, TCPD, HTTPD, SSHD, GCC, GNU tools.
- Electronic Commerce and recovery of United States Information Agency from HACKER attack.

Federal Communications Commission

Webmaster and Senior UNIX Administrator ~ 03/98 - 07/98

- Jurisdiction in both Universal Licensing System and FCC Auctions.
- Designed and implemented standards for development, staging, and production environments in accordance with Inspector General guidelines.
- Designed, coded, and maintained web and system security, web metrics.
- Key encryption, advanced networking, firewall, proxies, security standards.
- Sapphire, Netscape, Sybase, Jaguar, Java, TCPD, rsh, DNS, HTTP, HTTPS.

Digital Encryption Systems Inc.

Director of Online Services ~ 04/97 - Present

- Designed and deployed system for the population of legal forms from MS Access.
- Designed and implemented Legato/ORACLE hot backups for STANDARD & POOR's 2M dollar webfarm.
- Designed, coded, and maintained web security, database, metrics, and searching systems.
- Designed and supervised Legacy extraction task from MUMPS using NeXt web objects.
- Designed, coded, and maintained real-time reporting systems for modeling environment.
- Staged systems development, security, SSH, SSL, PGP, NFS, DNS, Sendmail, PERL.
- TCP/IP, Apache, Netscape, Open Market, Solaris 2.6, NeXt, FreeBSD, Linux, TIS Firewall.
- Web publishing, data conversion, scalable architectures, and COTS integration.

The Council of Better Business Bureaus

Senior Technology Expert - Internet Systems ~ 06/97 - 03/98

- Designed, coded, and maintained web security, database, statistics, web publishing, text searching systems for 150+ Bureau websites.
- Designed, coded, and maintained web publishing systems for sites up to 225 pages.
- Data conversions, proprietary log parsing, web monitoring of fax server and system errors.
- Designed, coded network monitoring system that aided in recovery of \$17K from our ISP.
- Staged Solaris 2.5.1 environment for development in Java, Perl, and UNIX shell with GNU tools.

Eastern Michigan University • Texas A & M University

Technical Editor of LINGUIST, Senior Editor, Systems Engineer ~ 10/92 - 02/97

- LINGUIST is the largest academic newsletter on Internet, and arguably the most influential of journals in the field of Linguistics. Over 8000 subscribers to 2000+ issues per year = 10 per day.
- Several million messages annually, LISTSERV, EMAIL systems.

- Ultrix, SunOS, Solaris, shell scripting, all C and Bourne shells.

Inside Ford Motor Company 's WWW Organization

Data Center Administrator, New Media Architect ~ 11/96 - 02/97

- Staging, maintenance, and support of entire data center Solaris (2.5.1) environment.
- Developed service level agreement between the W3 group and its customers (other parts of Ford).
- Designed, coded, and implemented network monitoring software to contact beepers.
- Designed, coded, and implemented global web activity statistics system.
- Designed, coded, and maintained web security system.

Ford Motor Company 's CTIS (Corporate Technical Information System) and Information Management Department

POSIX Network Administrator, Senior Web Developer ~ 10/95 - 11/96

- Staging, maintenance, and support of 15+ POSIX based enterprise systems.
- Supported operating systems - Solaris 2.3, 2.5.1, IRIX 5.3, Linux Caldera (Redhat), FreeBSD.
Multiple Supported Machines: Sun E5000, Sun E3000, SGI INDY, SGI CHALLENGE S.
- Installed and configured multiple peripherals - CDROM, DAT drives, SSA, Exabyte stacker.
- Agent technology, designed and maintained Spider for cataloging corporate network.
- Designed, Coded, Implemented, and Supported company wide web feedback system.
- Designed, Coded, Implemented the web security system for databases moved from VM.
- Member of 3 member technical subcommittee WSL (web single login) adopted by FORD MOTOR COMPANY as a solution to web security. Using cookies, SSL, cross server, cross platform.

AWARDS & CERTIFICATIONS

- Awarded Outstanding Service Award by Eastern Michigan University Linguistics.
- Earned Sun Enterprise and Workgroup Certification, BMC Patrol Certification.

SELECTED PUBLICATIONS, PAPERS, POSTERS & PRESENTATIONS

- Updated list can be found at <http://iama.rrecktek.com/rreck/rreck-pubs.doc>
- Sall, Kenneth and Reck, Ronald P. *Applying XQuery and OWL to The World Factbook, Wikipedia and Project Gutenberg*, XML 2006. Boston, MA, December 2006.
- Beckman, Tom and Reck, Ronald P. *Issues in Knowledge Representation and Semantic Interoperability*, 5th Semantic Interoperability for E-Government Conference. McLean, Virginia, October 2006. Special Recognition Award for the Best Exhibit.
- *Metadata Cards for Describing Project Gutenberg Texts*, OntoLex 2006: Interfacing Ontologies and Lexical Resources for Semantic Web Technologies. Genoa, Italy, May 2006.
- Sall, Kenneth and Reck, Ronald P. *Implementing a Government-wide Semantic Solution to Thesauri*, XML 2005. Atlanta, Georgia, November 2005.
- *Doing Justice to Data Standards: The Global Justice XML Data Model (GJXDM)*, International Conference on Politics and Information Systems Technology and Applications. Orlando, Florida, July 2005.
- John Terpstra, Paul Love, Ronald P. Reck, Tim Scanlon. **Hardening Linux**. McGraw Hill Osborne Media. ISBN: 0072254971, August 2004.