

# Walter L. Stoneburner

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Walt is a commercial software developer with 20+ years of experience that has a math background and solid experience in QA, SCM, and application security.

## Skills

- Synopsis:** Application Design, Requirements Gathering, Quality Assurance, Configuration Management, Documentation, Training & Presentations
- Special Areas:** Multi-user Applications , Client/Server, Web Development, Systems Software, Code Optimization, Static Analysis, Interprocess Communications, Network Sockets, Multi-threaded and Concurrent Programming, Text Manipulation, Parsing, Compiler and Language Design, Operating Systems, Serial and Network Communications, Device Drivers, Event Processors, Exception Handling, Mixed Memory Models, Window's DLLs & VBXs
- Languages:** Java , C#/.NET, C/C++ & STL, Objective-C, PHP, Perl, Ruby, Python, ASP, ColdFusion, Pascal, Assembly (Intel x86), Basic, Awk, Sed, XML, XSLT, DTD/XSD, HTML and DHTML, JavaScript, jQuery, Prototype, Rebol, SQL (PostgreSQL/MySQL/Oracle/MS-SQL), Expect, Windows Script Host (WSH)
- Software Tools:** Subversion, PVCS, CVS, SCCS, StarTeam, FogBugz, Doxygen, JUnit, NUnit, Selenium, Lint, Software Profilers, Debuggers and Soft/ICE, Bounds Checker/Code Guard, LEX/Flex & YACC/Bison, JavaCC, Disassemblers, Heap Managers, Visual Studio, NetBeans, IntelliJ, Make, Ant, NAnt
- Libraries:** Cocoa, JBoss (J2EE), Hibernate, Lucene, LDAP, SNMP++, ACE, RogueWave, zApp, Vermont Views , HLLAPI, Spontaneous Assembly
- Platforms:** Unix (Linux/BSD/BeOS/HP/Solaris/AIX), OS X, Windows (3.1, NT, 2000, XP), DOS (MS and Digital Research), JBoss, Apache, iPhone, VAX/VMS, Data General CLI, OS/2, Asterisk (VoIP), Xen (machine virtualization), Sharepoint
- Office Apps:** MS-Office (Word, Excel, PowerPoint, Access, Outlook), iWork (Pages, Numbers, Keynote), Photoshop, Gimp, Illustrator, CorelDRAW, emacs/vi, FinalCut, Premier, PGP

## Publications

- Credited reviewer for *Ruby on Rails: Web Mashup Projects* by Chang Sau Sheong, ISBN 978-1-847193-93-3, April 2008
- Mentioned in *Make: Projects; Small Form Factor PCs* by Matthew Weaver and Duane Wessels, ISBN 978-0596520762, April 2008, Chapter 9: Bluetooth LED Sign
- Credited reviewer for *Building Dynamic Web 2.0 Websites with Ruby on Rails* by A.P. Rajshekhar, ISBN 978-1-847193-41-1, March 2008
- Photo credit *Courting the Web Giants*, Business Section of *The Washington Post*, Saturday, January 7, 2006, page D01, leading half-page spread; archive available online.
- Mentioned in *Exploiting Software: How to Break Code* by Greg Hoglund and Gary McGraw, ISBN 0-201-78695-80, p. xxxiii, February 2004
- *Pro-Lite Scrolling Message Signs*, Linux Journal , June 1999
- *A True Satire About Why Commercial Support Doesn't Cut It For Me*, published in *Linux Gazette*, February 1999, Issue 37
- Mentioned in *AntiPatterns and Patterns in Software Configuration Management* by William ISBN 0-471-32929-0, p. xi-xii for significant contributions and editing.
- *Pumpkin Carving Secrets*, published in *Ladies Home Journal*, October 1999
- *Event Horizon*, eZine editor and artist, 1997-1998
- *Singularities*, eZine founder, editor, and artist, 1995-1997 (bought by *Omni* magazine)

## Job History

### Business & Engineering Systems, Sterling, VA R&D Specialist / Sr. Systems Architect

Aug 2005 – Present

Architected, designed, and developed a multi-user advanced software solution product for secure commercial/government knowledge management and data mining, utilizing novel search constructs and concept representation in Java and C#, hosted on a Solaris JBoss environment. Developed algorithms for locating highly-relevant content in unstructured corpuses when the specific criteria of the data sought was unknown. Development team lead. Founded QA and trained staff. Also responsible for CM and initial defect tracking, metrics, training, documentation, and infrastructure.

**Northrop Grumman Information Technology/TASC, Chantilly, VA**  
**Sr. Systems Engineer**

**Mar 2003 – Aug 2005**

Provide technology insertion and Quality Assurance support for the IC MAP program. Performed SETA work in the form of requirements definitions, product evaluations, comparisons, and recommendations. Authored topical white papers. Prepared and executed test plans, test suites, and test cases.

Application and Sharepoint web part development using IIS for the CIX portal group.

**Cigital, Inc., Dulles, VA**  
**Senior Consultant**

**Apr 2002 – Mar 2003**

Responsible for test case generation, protocol simulation and load/performance testing, API documentation, reverse engineering, security assessments, configuration management, code reviews, and product testing.

**Innovative / SAIC, McLean, VA**  
**Web Developer**

**Sep 2001 – Apr 2002**

Developer, mentor, and technical lead for .GOV registration redesign; responsible for generation of top-level domain zone files. Reserve web developer for government Blue Pages. Additional responsibilities include secure application development, configuration management, eCommerce development, QA activities, software packaging, and documentation. Solaris and Win2000 platforms using Apache, PHP, Perl, and Oracle 8i.

**Independent Consulting, Ashburn, VA**  
**Consultant**

**Jun 2001 – Sep 2001**

Web site applications and automation using Apache and PHP. Intrusion detection and recovery for a small ISP hosting service. Infrastructure enhancements for a school. Wrote multi-user C++ server. Designed developer resource site with PHP, Perl, and MySQL.

**Invertix Corp., Annandale, VA**  
**Senior Software Developer**

**May 2001 – Jun 2001**

Documented, validated, and enhanced build processes; responsible for SNMP code instrumentation and integration into instant messaging servers using C/C++, SNMP++, and HP OpenView, Oracle, and ColdFusion. Provided version control auditing. Identified coding design and security risks to management. HP, Linux, and NT platforms.

**FastTide, Inc., McLean, VA**  
**Performance Assessment Engineer**

**Feb 2001 – May 2001**

Responsible for configuration management, tracking software and hardware deployments to remote QA and development environments, and conducting performance assessments of the product. Assisted QA with analysis and test case generation, automation and testing, worked with Java development staff, produced internal product documentation, performed product evaluations for strategic partnerships (with emphasis on streaming media), configured and managed internal QA lab and website. Installed, scripted, configured, and coded applications for Linux, BSD, and other operating systems.

**SAGA, Reston, VA**  
**Advisory R&D Specialist / Code Reliability and Process Management**

**Apr 2000 – Feb 2001**

Reported directly to the Director of R&D for the core Sagavista product, a B2B solution implemented in Java. In my original role as a developer and process consultant, I optimized the build process, deployment, version control procedures, and defect reporting. Performed automated testing with WinRunner. Wrote several utilities for Windows and Linux. Set up a R&D website for automated deployment. Produced internal product documentation. Performed inventory and audits for legal compliance. Managed three teams: SCM, build/integration, and scenario testers. Supervised and taught intra-project parallel development with PVCS. Division level tool selection. Started maintenance team efforts and performed analysis of system defects. Part of change control board. Scenario test generation, product smoke tests, and analysis. Responsible for our hardware lab, which provided NT, Linux, Solaris, and HP workstations and servers to developers for testing.

**Downright Software, LLC, Ashburn, VA**  
**Sr. Systems Engineer / Sr. Creator**

**Mar 1998 – Apr 2000**

Performed coding optimizations on MATLAB generated code for positioning software. Assisted in the design and implementation of a multithreaded distributed news dissemination system written in C++ using MFC and STL. Coded numerous parsers and generators; enhanced pattern matchers and serial i/o modules.

**Concept Five, McLean, VA****QA Systems Analyst, Sr. Systems Architect****October 1996 – March 1998**

Produced and implemented strategies for testing object oriented distributed systems written in C++, Java, and CORBA from requirement phase to deployment. Developed test automation code. Generated metrics and provided product assessments. Mentored QC lab staff. Responsible for security test suite generation, lab fire walling, and general infrastructure.

Developed web publishing applications used by Amoco and BankBoston using MS SQL, C++, Perl, and Cold Fusion.

**CyberCash, Inc., Reston, VA****Software Engineer****March 1996 – October 1996**

Software requirements, design, and development of scalable transaction processor gateway in GNU C/C++ for electronic credit/cash over the Internet involving cryptography; implemented on Unix.

**Corporate Cost Management / GMIS, Rockville, MD****Lead Software Engineer****October 1993 – March 1996**

Software design and development of ICAS for Windows, a statistical decision support system written in C, Visual C++, and VisualBasic. Technical Presentations. Documentation. Debugging. Defect tracking. Quality assurance. Software life cycle.

**General Electric Information Services (GEIS), Rockville, MD****Sr. Programmer / Analyst****June 1986 – October 1993**

Windows development of BT\*2000 product in Visual C++. Special assignment to gather legal evidence on software infringement suit. Software development. Training and Special Presentations. LAN maintenance. PC technical support. Software development of EDI\*RAMP.

**Independent Consulting Services****Consultant****1984 – Present**

- The Parent Institute – web programming and consulting
- Gracestone Calligraphics – website design, programming, and consulting
- Vienna Adventist Academy – infrastructure and configuration assistance
- Evolvtech – intrusion detection and recovery
- Washington Calligraphers' Guild – website hosting, design, and consulting
- WWCo – web programming and infrastructure
- ProjectAir – web programming and design
- American Communication Express – web programming and design
- AUSI Inc., Optimized and improved GENie on-line games
- Corporation for Open Systems – developed high speed communication library
- Athletic House – data recovery
- E. F. Hutton – crisis resolution, database conversions, software patches, purchasing
- Duncan, Allen, and Mitchell, Atty. – software development, purchasing, training, IT support
- Balfour Ring Company – developed custom accounts receivable package

**Education**

Roanoke College, Salem, VA – B.S. Computer Science & Statistics, 1991

- Tutored Advanced Computer Science (2yrs)

Various software development conferences – WWDC, No Fluff Just Stuff, Software Development East & West, professional courses, Learning Tree classes, and videos pertaining to software life cycle, software development techniques, QA, OOP, OOD, OOA, system metrics, security, performance, client/server development, languages such as Java and Objective-C, technologies like advanced XML and XSLT, vendor libraries like Simware, Rogue Wave, and enterprise applications such as Oracle 8i.