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 scaleable 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.