C. Dean Whitaker

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SPECIALITIES
- Software development team leadership, particularly using an Agile Scrum methodology
- Software system architecture
- Object-oriented software design and development in Python and Java
- Unix and Linux system architecture and administration
- Implementation and education of engineering best practices to improve software quality
- Development of automated Quality Assurance systems
- Red Hat Certified Engineer (RHCE)

RACKSPACE HOSTING, Blacksburg, Virginia, May 2012 - present

DEV TEAM LEAD: E-MAIL STORAGE
- Development lead over a team of software developers and engineers responsible for storage, search, backup, and retrieval of Rackspace e-mail, using an Agile Scrum methodology.
- Guide software and sprint planning, help to establish career goals, and conduct one-on-ones with members of the team.

EMERGETH, Boones Mill, Virginia, March 2012 - present

OWNER AND FOUNDER
- Design, build, and manage software and web solutions using open source infrastructures for small businesses
- Leverage cloud hosting to prevent under-utilization of server resources

MODEA, Blacksburg, Virginia, November 2007 - February 2012

MANAGER: SQA AND INTEGRATION - August 2010 – February 2012
- Sole Linux system administrator for up to 20-30 Production, Staging, CI, and development machines; on both dedicated and cloud platforms
- Manage firewall, intrusion detection system, and load-balancer rules on hosted platforms
- Create automated web application build/test suite using PesterCat and Hudson
- Create automated tools to monitor site health and performance degradations
- Create Continuous Integration (CI) and Staging environments for each project
- Develop Modea's automation system for code deployment using Python, Django, and Hudson
- Create automated system to rapidly spin up web environments for Verizon and T-Mobile projects
- Create and document Modea's project integration, SCM, and web security standards
- Establish a series of Modea University seminars for knowledge sharing and for team-building
- Institute a Software Engineering Process Group (SEPG) within Modea to establish best practices
- Continue to operate in a web application development capacity for Graco projects
- Manage and integrate project Subversion repositories
- Maintain and merge development and release SVN branches

WEB APPLICATION DEVELOPER - November 2007 – August 2010
- Merge disparate web application databases into a data warehouse using PHP, SQL, and MySQL stored procedures
- Develop CentOS Linux/Apache/MySQL/PHP (LAMP) microsite back-ends for customers such as Advance Auto Parts, Graco, Lenox Tools, and Rackspace
- Sole maintainer of internationalized product catalog site for Graco, using Zend/PHP
- Configure and maintain Drupal CMS-based sites for Mizuno project

PRIMETIME RENTALS, Roanoke, Virginia, September 2005 – October 2007
SENIOR SOFTWARE ENGINEER

PTR: Web-based point-of-sale application using Java and MySQL on Linux machines for use in stores and at corporate headquarters. (September 2005 – October 2007)
- Design and develop Java point-of-sale application encompassing inventory, customers, pricing, and contracts, using Java Servlets for presentation layer, JavaScript and CSS for dynamic HTML, and JNI to enable peripherals
- Hold requirements meetings with company owner, testers, and auditors to establish business rules and interface guidelines. Explore ways the new application could improve business operations
- Design normalized database schema, integrated with application in Java DAO layer. Migrate data from legacy COBOL system into MySQL database
- Install and configure secure Red Hat and Fedora Linux machines for store use
- Manage quality control using Bugzilla bug tracking, CVS and Ant development tools, and JUnit and Pestercat testing tools

Kronos, Inc. (3i Systems), Blacksburg, Virginia, July 2004 – September 2005
SOFTWARE ENGINEER

webTA: Online time and attendance system used by a number of federal agencies using Java Servlets and PL/SQL. (July 2004 – September 2005)
- Developed features and code fixes within Java Servlets, PL/SQL procedures for business logic, and (judicious) use of JavaScript for HTML form validation
- Instituted the SEPG and ran meetings, focusing on formalization of peer-reviews, process documentation, and testing (August 2004 - September 2005)
- Developed and managed a regression test system for webTA using PesterCat testing tool
- Acted as support lead and implemented Clarify product as the customer support system (December 2004 – September 2005)

SRA INTERNATIONAL, INC., Fairfax, Virginia, Jan 1997 – July 2004
SOFTWARE DEVELOPER, SENIOR MEMBER PROFESSIONAL STAFF

CWA TGET: Program for Surface Deployment and Distribution Command (SDDC) under TRANSCOM (U.S. Transportation Command), converting and validating accounting data into standardized lines of accounting (FA2 LOAs) thus improving the capability of the military services to track payments to personal property carriers. (March 2004 – July 2004)
- Task Lead for software team, managing developers, requirements gathering, constructing and documenting software design, meeting with customers, and presenting for design reviews
- Implementing SOAP web services in Java for external queries of the TGET system
- Integrating software into SunOne Appserver 7, configuring Ant build system and CVS version control system, and implementing test harness

EIP: Program for Military Traffic Management Command (MTMC) under TRANSCOM, migrating disparate applications into a large enterprise system for improved security and resource optimization. (January 2003 – March 2004)
- Analyzed impact of software migration, determining requirements, software changes, and potential conflicts. Prepared test processes and tools in Java and SQL to ensure that application stability
- Installed, configured, and integrated multiple J2EE applications server platforms across different layers of the enterprise, as well as setting up SSL, RMI, and IIOP across the layer boundaries

PPQWEB: Program for MTMC, developing a form submission system for personal property carriers within J2EE architecture. (March 2003 - August 2003)
- Project specialist, integrating software into Solaris Tomcat and JBoss environments. This included managing CVS, the Ant build scripts, and deployment of Java Servlets and Stateless EJBs
- Made software changes to refactor application layer from a CMP system to customized Data Access Object (DAO) system. Integrated for migration into IPlanet and SunOne environment

ULTRA*LOG: Defense Advanced Research Projects Agency (DARPA) program, a continuation of Alpine, developing software based on Cougaar (Cognitive Agent Architecture). (May 2001 - January 2003)
- Technical Lead on UltraLog project (October 2002 - January 2003) developing Cougaar PlugIns in Java and XML for software Agents to project demand and logistics requirements and simulate execution of consumption by military battalions for Subsistence, Fuel, Ammunition, and Repair Parts
- Administered CVS, Ant, Linux and Solaris servers and workstations, and MySQL database server

ALPINE: DARPA program that researched advanced Agent-based software architecture in a military logistics model. SRA built software models of Combat Service Support. (February 2000 - May 2001)
- Designed and implemented Alpine software PlugIns and web interfaces in Java to project demand and logistics requirements of a US Army Division for Class I subsistence and to calculate and display comparative Unit Readiness of US Army maintenance companies
- Administered CVS, software builds, and Linux and Solaris systems

GCCS SS: System Services of Global Command and Control System (GCCS) System Services (SS) sub-system database migration task for U.S. armed services. (January 1997 – February 2000)
- Task Lead in development of new User Permissions role-management Java Swing application (March 1999 - February 2000)
- Performed software maintenance and new requirements changes in Ada, ProAda, and SQL. Migrated software from VADS to Rational Apex version control and compilation system
- Migrated to DII COE (Defense Information Infrastructure Common Operating Environment) Version 3.0 compliance of Medical Planning and Execution Sub-System (MEPES)
- Administered Rational Apex version control system

SHORT-TERM PROJECTS
- Co-taught courses for SRA's educational program focusing on software best practices and tools (September 2001 - November 2001), XML parsing in Java (March 2001 - May 2001), and building user interfaces with Java Swing (October 2000 - December 2000)
- Performed Linux server installation for the Department of Navy CIO GISTIT project (October 2001)
- Developed an installation application for PIDS (President-elect Information Dissemination System) (July 2000)

TECHNICAL SKILLS
- Primary Languages: Java, Python
- Operating Systems: Red Hat Linux, CentOS, Solaris
- Servers: Apache httpd, JBoss, Apache Tomcat, SunOne Appserver7, SunOne Iplanet
- Database Systems: MySQL, Oracle
- Hosted Web Systems: Rackspace Dedicated, Rackspace Cloud, Amazon Web Services (AWS)
- CMS Systems: Drupal, Django, WordPress
- Additional Skills: PHP, JavaScript, Expect, SQL, PL/SQL, Ant, Git, Subversion, CVS, POSIX tools, RegEx, XML, UML, DNS, Firewalls, Postfix, Chef

EDUCATION
- B.S. Computer Science, Radford University, December 1996, Magna Cum Laude
- A.S. Engineering, Virginia Western Community College, May 1994
- RHCE (Red Hat Certified Engineer) August 2012