

Kelly Cox

204 Gentry Avenue
Alexandria, VA 22305

Phone 703-519-1992
Fax 703-832-0653
email kmcox@alum.mit.edu

Expertise	Oracle Application Server (OAS) Installation, Configuration and Integration	PL/SQL, PHP and SQL Programming
	Oracle Identity Management / SSO / LDAP (OIM)	Java Development
	Portal Development	HTML / CSS / Javascript / AJAX
	Oracle Database Administration	Linux / UNIX / bash
Experience	Consultant	
	2010 – Present	Alexandria, VA
	<ul style="list-style-type: none">▪ NES, Inc.; OAS (SOA Suite) Admin: Stabilized, diagnosed, and reconfigured some 40 installations of Oracle AS10g Release 3 for Defense Contract Management Agency. Solved ongoing problems, made improvement recommendations, and trained existing staff to manage and debug servers running J2EE, ADF, BC4J, and web services applications. Developed BASH and FTP scripts to assist with maintenance; installed Oracle Grid Control 11g.▪ Numerous Clients; Web Development: Creating stylish web sites with advanced functionality using PHP/MySQL, Google Sites, and Wordpress, in partnership with design professionals. Wrote custom integrations with PayPal for non-profit membership and registration payment processing.	
	Oracle Application Server Administrator	
	2009 – 2010	OnPoint Consulting Arlington, VA
	<ul style="list-style-type: none">▪ Technical lead for all OAS initiatives, FAA Office of Finance (FLITES program). Installed, configured, and maintained 6-8 application server instances. Configured SSO integration with Microsoft Active Directory, SSL encryption, Oracle Discoverer, Forms, and Reports (i.e., Business Intelligence Edition). Ensured compliance with FISMA and DOT standards.▪ Identified and resolved problems with existing servers; advised clients and development teams regarding best practices and architecture; developed standards and processes for secure, maintainable systems and repeatable installs.▪ Managed the Grid Control installation for all administrators and over 100 servers.	
	Application Server Administrator; Developer	
	2008 – 2009	Kadix Systems Arlington, VA
	<ul style="list-style-type: none">▪ Continued support of DENIX. Added key functionality using AJAX with PL/SQL, and corrected longstanding issues with content migration.▪ Migrated the Knowledge-Based Corporate Reporting System (KBCRS), to a securely hosted environment. Led the DIACAP review process for the application, database, and web server.	
	Software Engineer; Database/Application Server Administrator	
	2007 – 2008	Plexus Scientific Alexandria, VA
	<ul style="list-style-type: none">▪ Development team lead. Successfully migrated the Defense Environmental Network and Information eXchange (DENIX) from an overloaded legacy HTML system to an enterprise-class, PKI-enabled Oracle Portal content management system.▪ Integrated DoD CAC with OIM; designed/developed content submission system; created sophisticated, dynamic, context-sensitive menus, forms and tools using PL/SQL, J2EE, Oracle Portal, HTML, CSS and JavaScript.	

Experience
(continued)

- Developed scripts using bash procmail and sed utilities to automatically read, format, and post emailed documents to the site.
- Researched and executed all protocols to ensure successful DIACAP certification for the system.

Consultant/Sole Proprietor

1996 - 2006

iDBexperts

Alexandria, VA

Operated a sole proprietorship over a span of ten years. Work was mostly 1099-based, with a mix of long-term projects, brief engagements, and training and publishing work. Long term project solutions include:

- **Office of Refugee Resettlement Web Data Upload System**, Health and Human Services (09/06 – 11/06), Technical Lead. Designed and developed a J2EE web-based application to read and process Excel spreadsheets containing refugee data from state welfare offices.
- **Federal Reserve Board Internal Portal/Business Intelligence Dashboard** (05/03 – 11/05), Architect/Programmer. Created medium-scale SSL-enabled deployment of OAS on Solaris, spanning versions 9iR2 through 10gR2, BI Edition. Integrated SSO and OID with in-house custom authentication. Created automated process to synchronize user information and database login with Peoplesoft HR. Tied Peoplesoft, Oracle Applications, and other custom code into the Portal.
- **American University** (12/00 – 02/01), Architect/Consultant. Installed, configured, tuned and analyzed a very large data warehouse and trained in-house DBA. Trained developers on PL/SQL Web Toolkit, WebDB, and Oracle Reports and provided ongoing support for developers.
- **United States Postal Service** (07/98 – 08/01), Oracle Web Applications Programmer. Developed, tuned, and maintained an Oracle Forms application and two web PL/SQL applications, supporting the National Test Administration Center. Migrated these applications on Oracle Application Server versions from 2.3 through 4.0.8. Converted hundreds of reports from a retired mainframe system into a handful of highly functional Oracle Reports. Administered, tuned, and upgraded the database, up to Oracle 8i.
- **Naval Aviation Systems Team** (03/95 – 10/98), Oracle Forms / Reports Programmer. Re-designed and developed a system to manage Government-Furnished Equipment for aircraft manufacturing. Rewrote hundreds of lines of poorly performing, difficult-to-maintain COBOL user exits into PL/SQL and made sweeping improvements to database design.

Author/Instructor

1996 - 2002

Learning Tree International

Reston, VA

- Taught full curriculum of Oracle Developer and DBA courses
- Author of first Oracle 9i Application Server course
- Editor of Oracle SQL and PL/SQL Tuning and Development course

Senior Consultant

1994 - 1996

Rapid Systems Solutions, Inc.

Columbia, MD

- Analyzed, staffed, initiated and deployed Oracle Forms and CASE based systems
- Performed trademark RapidStart Oracle installation, configuration, DBA, and troubleshooting services for a variety of commercial and government clients

Senior Member of Technical Staff

1991 - 1994

Systems Research and Applications Corp. Arlington, VA

- Tuned and maintained a large Oracle-based Decision Support System
 - Modeled econometric problems using programmatic features of Microsoft Excel
-

Additional Clients/Projects	Williams-Scotsman Mountaintop Software Army Health Care Systems	Knolls Atomic Power Lab NAVSEA Prudential Bank
Professional Affiliations	Board of Directors, International Oracle Users Group (IOUG) 2003-2005 <ul style="list-style-type: none"> • Portal Special Interest Group • Web Steering Committee Oracle Portal Customer Advisory Board	
Education	1991 Massachusetts Institute of Technology Cambridge, MA Bachelor of Science <ul style="list-style-type: none"> • Management Science, Information Systems • Minor in Psychology 	
Publications	<ul style="list-style-type: none"> • “Oracle AS10g for Administrators” New York Oracle Users' Group, June 2004. • “Web Shootout: A Comparison of Tools” New York Oracle Users' Group, June 2004. • “Make your Content Sing and Dance with Oracle Portal” IOUG Live, May 2003. • “Automate Portal SSO User Creation and Self-Registration,” IOUG Live, April 2002. • Oracle Press: <i>Oracle 9iAS Portal Handbook</i> (with Steve Vandivier), December 2001 • Learning Tree: Author, Hands-On Web Application Development with Oracle Technical Editor: Oracle Application Development and Tuning • Bookman Testing Services: Expert Reviewer, Oracle8 DBA Test • SoftCert Oracle Certified Professional exam prep courses for PL/SQL and Oracle Reports • Wrox Press: <i>Professional Oracle 8i Application Programming with Java, PL/SQL and XML</i> (Contributor), December 2000 • “A WebDB Case Study: The International Oracle Users Group-Americas Technical Repository,” Oracle Openworld, October 2000. • “Demystifying the Designer Web Server Generator;” International Oracle User’s Group (IOUG-A Live!), May 2000. • “The Use of IDEF in Activity-Based Costing: Evaluating the Costs of Doing Business in a Service Industry;” <i>IDEF User’s Group Conference Proceedings</i>, October 1992. 	
Accreditations	Oracle Certified Professional DBA and Internet Application Developer Dale Carnegie Human Relations , June 27, 1995	
Awards	Chris Woolridge Award for outstanding contribution and dedication to the advancement of the International Oracle Users Group, IOUG Live, April 2002. Certificate of Commendation for database assistance, US Department of Justice, Immigration and Naturalization Service, May 12, 1993. Sloan Outstanding Senior prize, June 1991.	
Security Clearance	Currently in process for Secret. National Agency Check for Federal Reserve Board of Governors (inactive)	