

W. Craig Trader Software Engineer / Technology Generalist

Contact Information

101 Forest Ridge Drive, Sterling, Virginia, 20164-2812
703.598.6506 – craig@trader.name – <http://trader.name/> – <http://www.linkedin.com/in/craigtrader>

Objective

To find a dynamic and challenging position with a forward-looking company, working with exceptional people and the latest technologies.

Professional Overview

I am a technology generalist, but I am also highly skilled in all aspects of software system design, development, testing, and deployment. My twenty-eight years of software development includes:

- ◆ Twenty-five years developing applications using Relational and Object-Relational databases.
- ◆ Eighteen years developing distributed and embedded applications with Object-Oriented tools such as Java / J2EE, .NET / C#, Python, C++, CORBA, and XML.
- ◆ Ten years enhancing and developing Compilers, Code Generators, CASE tools, 4GLs, and Application Frameworks.

Technical Specialties

Programming Languages and Technologies: Java (J2EE, JDBC, JSF, JNI, Swing, Spring), .NET (C#, Mobile), XML, C, C++, CORBA, WebLogic, JBoss, Python (Django), PHP (Wordpress), Perl, Shell Scripting.

Databases: Oracle 10g / 11g, SQL Server 2005 / 2000, MySQL, PostgreSQL, Objectivity, SQLite, Informix Illustra.

Operating Environments: UNIX systems (Linux, Solaris, Mac OS X, Irix, AIX, HP-UX, Ultrix, OSF/1, QNX, DG-UX), Windows (Mobile / Vista / 2003 / XP / 2000 / NT / 98 / 95 / 3.X).

Virtualization Platforms: VMware (ESX / ESXi / Server / Workstation).

Agile and CM Tools: Hudson / Jenkins, CruiseControl, Git, Subversion, ClearCase, CVS.

Professional Experience

- 11/2012-present Sterling Computers, Chantilly, VA
Northrup Grumman
SENIOR SOFTWARE ENGINEER
Develop and Test workflow applications for document exploitation using JBOSS, JBPM, and OpenAMQ on Linux. Develop and Deploy graph databases using Objectivity, C++, Java on Linux and Windows Server 2008. Managed development with Subversion, Jenkins, Ant, Bugzilla and JIRA.
- 06/2011-11/2012 Novel Applications, Fairfax, VA
General Dynamics - Advanced Information Systems
SENIOR SOFTWARE ENGINEER
Developed and deployed distributed applications for Malware Analysis using Python (Django), Java (JSF), PHP, MySQL, Cisco IOS, TomCat, Apache, Red Hat Linux. Built a virtualization environment for software development, testing, and deployment. Managed development with Git and JIRA.
- 07/2010-05/2011 Harris Crucial Security, Chantilly, VA
SENIOR SOFTWARE ENGINEER
Developed and deployed distributed applications for Malware Analysis using Python (Django), Oracle, VMware ESX, Apache Red Hat Linux. Built a virtualization environment for software development, testing, and deployment. Managed development with Trac and Subversion.
- 05/2009-05/2010 Mercury Federal Systems, Reston, VA
SENIOR STAFF ENGINEER
Developed Linux device drivers, ported Software-Defined Radio software, and built testing frameworks in support of OpenCPI, an Open Source Component Portability Infrastructure, using Red Hat Linux, C, C++, and CORBA. Managed development with Trac, Git, Subversion.

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Professional Experience (continued)

- 10/2006-05/2009 **Sphere of Influence, Vienna, VA**
SENIOR INFRASTRUCTURE ARCHITECT / SENIOR SOFTWARE ENGINEER
Provided technical expertise when developing software systems for government and commercial customers. Built a virtualization environment for software development, testing, and deployment.
2008-2009 Gator Snap
Developed software for a multimedia Windows Mobile application, using C#, C++, and Windows DirectShow.
2007-2009 SMS
Provided software development and engineering support to SMS, using Microsoft .NET, C#, and SQL Server 2000. Developed a continuous integration environment for building and testing this system.
2006-2007 ABACUS Field Accounting
Developed software for a distributed accounting system deployed to offices around the world, using Microsoft .NET, C#, SQL Server 2000, and MSMQ middleware. Specific challenges for this project included supporting the broad range of fielded system configurations as well as limited resources.
- 07/2006-present **Akonizo, Sterling, VA**
WEB TECHNOLOGY CONSULTANT
Develop and deploy websites for artists and amateur entertainment groups using Wordpress, PHP, Python, MySQL, and VMware.
- 11/2001-10/2006 **Lockheed Martin IS&GS, Gaithersburg, MD**
08/2006 – 10/2006, JTRS AMF Proposal, INFRASTRUCTURE ARCHITECT
Designed a development and testing infrastructure for cross-team integration.
10/2004 – 06/2006, MISSILE DEFENSE NATIONAL TEAM, ABM IPT, LEAD TOOLS ENGINEER
Responsible for developing processes, tools, and techniques for applying Model-Driven Architectures, Test Oracles, and Agile Development Processes for the development of the Advanced Battle Manager for the Missile Defense National Team (B). Responsible for deploying a distributed, integrated development environment for 100 developers.
11/2003 – 09/2004, CTL ACTD, SOFTWARE ENGINEER
Developed user interfaces with Model-Driven Architecture for interfacing with web services for Coalition Theatre Logistics Advanced Concepts Technology Demonstration.
07/2003 – 10/2003, ARCI, SOFTWARE ARCHITECT
Researched, tested, and recommended appropriate technologies for inclusion into future generations of the Advanced Rapid COTS Insertion sonar systems. Investigated clustered file systems that would meet the mission-critical requirements of modern sonar systems.
11/2001 – 06/2003, JTL ACTD, LEAD INTEGRATION ENGINEER
Integrated software from five co-contractors with Lockheed developed software for the Joint Theatre Logistics Advanced Concepts Technology Demonstration, including configuration management, testing, and scheduling integration experiments. Lead a team of cross-functional engineers in support of the integration effort. Developed and integrated distributed software systems using Java and CORBA to collaborate on Operations and Logistics information.
- 11/2000-05/2001 **ScoreBoard, Inc., Herndon, VA**
OpenNMS FELLOW / SOFTWARE ARCHITECT
Developed agent extensions to OpenNMS, an Open Source Network Management Software package. Re-engineered corporate extranet using Java Server Pages for stability and manageability. Provided technical leadership and direction for programmers and engineers.
- 07/1999-11/2000 **Vitel, Inc., Chantilly, VA**
SOFTWARE ARCHITECT
Responsible for architecture, design, and delivery of software systems for Real Time SCADA (Systems Control And Data Acquisition) applications using Java, C++, and CORBA, deployable under Linux and Windows.
- 05/1997-07/1999 **MITRE Corporation, Reston, VA**
SENIOR NETWORKING AND DISTRIBUTED SYSTEMS ENGINEER
Analyzed and made recommendations about emerging technologies (Linux, CORBA, DCOM, XML, Java, Internet Protocols, Database Federation, Mobile Code) as applied to government and defense needs.

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Professional Experience (continued)

- 03/1996-04/1997 **Kaizen Works, Reston, VA**
SENIOR SOFTWARE ENGINEER / WEB DATABASE SPECIALIST
Specified, designed and implemented Object-Oriented, web-based multimedia databases. Designed and implemented Python class libraries and extensions for database access and web site integration. Provided technical leadership and direction for programmers and engineers.
- 03/1992-02/1996 **Datatel, Inc., Fairfax, VA**
ANALYST-PROGRAMMER / TOOLS & TECHNOLOGY SPECIALIST
Specified, designed, and implemented improvements to Envision, a platform independent CASE tool. Specified, designed, and implemented improvements to existing language translators (Basic to Data/C++) as well as new language translators (custom function translators). Specified, designed, and implemented data-porting tools to transition over two hundred customers from Information databases under Primos to Unidata under UNIX and VMS. Configuration manager for release 12 of Colleague, Datatel's premiere College Administration software. Integrated and tested 3rd party middleware for client/server database access and reporting.
- 08/1991-02/1992 **Ultimate Data Systems, Inc., Wilton, CT**
SYSTEMS ANALYST
Redesigned and implemented Accounts Receivable, Physical Inventory subsystems. Established programming standards for all new development.
- 03/1988-07/1991 **Pegasus Publishing Systems (PPS), Inc., East Brunswick, NJ**
05/1990 – 07 / 1991, SYSTEMS ANALYST / PROJECT LEADER
Designed and implemented a completely new system for managing the publishing of books and journals. Directed programmer/analysts and junior programmers.
03/1988 – 05/1990, ANALYST / PROGRAMMER
Designed and implemented several custom database systems, as well as specifying others for contract work. Maintained existing software and designed, wrote and installed major modifications to sub-systems. Specified and implemented data conversions. Managed two junior programmers and an outside contractor. Managed customer support for 10 customer sites.
- 03/1984-10/1988 **United States Air Force**
COMPUTER OPERATOR / SERGEANT

Clearances

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|--------------|---|
| 2012-present | DoD TS/SCI w/CI-Poly, Northrup Grumman. |
| 2011-2012 | DHS TS/SCI w/CI-Poly, GD-AIS |
| 2010-2011 | DoJ TS/SCI w/CI-Poly, Harris Crucial Security |
| 2009-2010 | DoD Secret, Mercury Federal Systems |
| 2008-2009 | DoD TS/SCI, DTRI (now QinetiQ) |
| 2006-2009 | DoD Secret, Sphere of Influence |
| 2001-2006 | DoD Secret, Lockheed Martin |
| 1997-1999 | DoD Secret, MITRE |
| 1986-1988 | DoD Top Secret, USAF |
| 1984-1986 | DoD Secret, USAF |

Education

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| 2002-2003 | University of Phoenix, Pursuing a BS in Information Technology. |
| 2001 | Brainbench Certifications, Systems Analysis, Linux Administration (General), Java 1 |
| 1984-1988 | United States Air Force, Military and Management Training courses, Computer Programmer Career Development Course, Computer Operator Career Development Course |
| 1981-1983 | S.U.N.Y. College at Brockport, Brockport, NY, Majored in Computer Science and Mathematics |
| 1977-1981 | Watkins Glen High School, Watkins Glen, NY, Graduated with Regents Diploma |