

Jason E. Kasper, Sr.

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IS ARCHITECT - TECHNOLOGY

Versatile and experienced Lead Developer and Chief Architect with a wide range of technology skills. Expert in the design and architecture of cost-effective, high-performance information technology infrastructures and applications. Strong expertise in designing, developing, and implementing secure, networked systems using Open Source solutions, Open Standards, and accepted best practices. Core competencies include:

- Rational Unified Process (RUP) methodology
- Unified Modeling Language (UML)
- Technology Architecture and Integration
- Software design patterns
- DB2, Oracle, MySQL Databases
- Enterprise-level Electronic Commerce Web architecture and integration
- Java Swing and AWT, XML, Server Sockets, JNI, multi-threaded client and server applications
- C++ Programming Language, Standard Template Library (STL) Qt, KDE, gtkmm
- C Programming Language, Xlib, Gtk, Gtk+, TCP/IP, GNOME
- Perl, PHP, POSIX shell scripting and programming
- Mission Critical application platforms

SELECTED ACHIEVEMENTS

- While delivering the \$40 Million Next Generation Pharmacy System at Rite Aid, I:
 - Developed the model and applied Rational Unified Process (RUP) methodology.
 - Engineered a pure Java-based mission-critical distributed real-time Pharmacy Dispensing System which supports over 200 million prescriptions and over \$8 million in sales per year.
 - Established and enforced coding standards, architectural design, and design pattern utilization for Rite Aid's NexGen Dispensing System.
 - Mentored and coached development team of 20+ members in programming standards and optimization, UML architectural design, system and user interface consistency, and design patterns.
- Utilized key Open Source solutions that have contributed to the success of various Enterprise-level projects, opening the door to other low TCO Open Source solutions in corporate environments.
- Created and deployed a fully redundant, fault-tolerant production Internet Web-server solution with little capital expenditures and very small TCO through utilizing Linux, PHP, CVS, and other Open Source solutions.
- Architected, designed, and programmed a Palm PDA Memo-Database-to-filesystem synchronization conduit for the KDE KPilot suite.
- Developed Graphical User Interface and Human Interface Guidelines for Rite Aid's NexGen Pharmacy project and Rite Aid's Intranet Application Development Standards.

PROFESSIONAL EXPERIENCE

VMware, Inc. (NYSE:VMW), Palo Alto, CA

VMware is the global leader in virtualization solutions from the desktop to the data center. Customers of all sizes rely on VMware to reduce capital and operating expenses, ensure business continuity, strengthen security and go green. With 2007 revenues of \$1.3 billion, more than 100,000 customers and more than 10,000 partners, VMware is one of the fastest growing public software companies.

Linux UI Developer (2007 – present)

I am a UI developer on VMware's Hosted-UI team, working on the Linux Workstation and Player products, among others. My team is responsible for shaping the user-visible portions of VMware's virtualization products, adding features, fixing bugs, and enhancing our users' experience with the various user interfaces found in our product line.

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CVS Corporation (NYSE:CVS), Woonsocket, RI

America's No. 1 drugstore chain, CVS operates more than 5,400 CVS/pharmacy stores in 34 states and the District of Columbia. Total CVS revenues exceeded \$37 billion in 2005, with more than 70 percent generated through pharmacy sales. In fact, CVS/pharmacy stores fill more than one in every eight retail prescriptions in the United States.

IS Architect - Technology (2005 – present)

I am one of a team of architects in CVS's Technology Office—a role that serves across projects and technologies to provide leadership, design, research, creative solutions and performant architecture. I have been placed on CVS's Enterprise Pharmacy Management System (EPMS) project (a highly scalable J2EE application), as a part of the Performance Testing team, responsible for the following, among other things:

- Provide architectural direction and oversight to the web, application, and database tiers, as well as the core code base and custom performance-testing code.
- Ensure the stability, scalability, availability and performance of the infrastructure that is put in place to support the EPMS application.
- Minimize the risk to the Enterprise Pharmacy Management system by leveraging industry proven methods in the area of Performance Testing.
- To ensure that the system can handle stress and “worst case” scenarios by performing duration, performance, failover/recovery, scalability, network, interface, load, stress, and volume testing.

Rite Aid Corporation (NYSE:RAD), Camp Hill, PA

Rite Aid Corporation is one of the nation's leading drugstore chains, combining its modern store base, strong brand name, modern distribution centers and superior pharmacy technology with a talented team of approximately 72,000 full and part-time associates serving customers in 28 states and the District of Columbia. Rite Aid currently operates approximately 3400 stores, reporting total sales of \$16.5 billion at the end of its 2004 fiscal year.

Master Systems Engineer, Chief Architect : NexGen Pharmacy System (2002 – 2005)

I was the Chief Architect for Rite Aid's NexGen Pharmacy System, a mission-critical Java Swing-based prescription dispensing application. Widely-disparate systems and architectures comprise this new transactional dispensing system, including 2200+ Java classes communicating via compressed XML transactions to CICS COBOL programs over a nationwide VSAT network, as well as accessing DB2, UDB, and SQLServer databases. Platforms used include IBM OS/390 Mainframes, UNIX, Linux, Windows XPE, and Windows Server 2000. I have been Chief Architect and Lead Developer through the full process of analysis, design, architecture, construction, and implementation of this system. I was responsible for the following, among other things:

- Provide oversight to all new development and bug fixes.
- Review all architectural designs prior to coding and approve any significant change that is made.
- Establish and enforce coding standards, architectural design, and design pattern utilization.
- Mentor and coach development team of 20+ members in Java programming, software design, system consistency, reuse of code, and design patterns.
- Code integrity and auditing via weekly team code reviews.
- Utilized key Open Source solutions (CVS, Bugzilla, Mailman, OpenSSH, MiniLZO, Apache XML Project) that have contributed to the success of this project by providing a solid infrastructure. The successful implementation of these solutions has opened the door to other low TCO Open Source solutions in Rite Aid's corporate environment.
- Provide usability consulting, standards enforcement, creative design, and ensure consistent, intuitive, and discoverable user interfaces for this and other projects.
- Responsible for the development of corporate Graphical User Interface and Human Interface Guidelines.

Systems Engineer, Lead Developer, Systems Architect : Internet/Intranet Team (2000 – 2002)

In this role, I was the Chief Architect and Lead Developer for Rite Aid's Internet/Intranet development team. In this role, I was required to create a fully redundant, fault-tolerant production web-server solution for Rite Aid, with little or no capital expenditures and very small TCO. I was solely responsible for the system architecture, installation, and initial administration of this completely Linux-based solution, and met the requirements by utilizing 2 older, unused server-class machines acting as redundant, fault-tolerant Directors and 4 nodes from unused, 5-year-old Compaq desktop-

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class PII-333 machines. Specifically, I performed the following tasks:

- Converted Windows/ASP-based Web applications to Linux/PHP-based environment. This implementation was a crucial step in reducing Web TCO and decreased RiteAid.com's downtime dramatically. My architecture still exists and powers the Rite Aid corporate Internet website currently.
- Mentored and coached my team in the process of re-writing hundreds of ASP web pages to PHP/Oracle-based solutions.
- Worked closely with leading Internet companies such as Mapquest, Edgar-online, and DrugStore.com, providing strategic best-of-breed solutions.
- Engineered Internet and Intranet interfaces to Rite Aid's legacy CICS/DB2 programs using Perl, PHP, COBOL, REXX, Apache and IBM's CICS Web Servers.

Systems Engineer : RADS2 Pharmacy Project (1998 – 2000)

I received 3 months' training in basic COBOL, JCL, OS/390 TSO and DB2, and upon graduating from the entry-level class, I was placed into a project tasked with replacing the existing Pharmacy Dispensing System for use by Rite Aid and Drugstore.com. My team was given the task of creating a distributed Pharmacy application written in C and Visual Basic, Oracle (via PL/SQL, OCI and ODBC) and DB2 databases, running on Windows NT thin-clients, accessing SCO UNIX servers and IBM OS/390 Mainframes. Specifically, I performed the following tasks:

- Designed automated deployment infrastructure to download and install all parts of a software release over multiple operating systems at all Rite Aid stores participating in project.
- Developed and implemented Visual Basic client, C-program TCP/IP clients/servers and CICS/COBOL transaction programs.
- Investigated, recommended, and implemented various technology solutions for the distributed Pharmacy application, including custom scanner software and high-quality thermal bar-code printers.
- Presented features and selling points of the newly developed Rite Aid Dispensing system to Rite Aid executives, stockholders, Wall Street analysts and Rite Aid pharmacy trade-shows.
- Acted as key contact and user-support for the team during the testing phase of the Automated Pharmacy project-involving both on-site and off-site technical support for the various integrated systems.
- Assisted DrugStore.com in integrating their website and dispensing facilities with Rite Aid's new dispensing system and infrastructure.

Thrifty-Payless Incorporated(TPI)/Rite Aid Corporation (NYSE:RAD), San Diego, CA Retail Store Manager (1992 – 1998)

As Store Manager for TPI/Rite Aid, I was responsible for the day-to-day business needs that are unique to managing a 30,000 square-foot retail store, including but not limited to:

- Ensured customer loyalty and satisfaction with effective problem-resolution skills.
- Entrusted with departmental category buying, leading up to my being responsible for the buying for the entire store, as well as overall fiscal accountability as a Store Manager.
- Trained, coached, and mentored my store associates and nearby stores as new technology was released.
- Managed fiscal responsibility for daily/weekly/yearly store operations in a 1.5 million dollar store.

RELATED INDUSTRY EXPERIENCE

The K Desktop Environment

KDE is a network transparent contemporary desktop environment for UNIX workstations. KDE seeks to fill the need for an easy to use desktop for Unix workstations, similar to the desktop environments found under the MacOS or Microsoft Windows. Together with a free implementation of UNIX such as GNU/Linux, UNIX/KDE constitutes a completely free and open computing platform available to anyone free of charge including its source code for anyone to modify.

Open Source Developer and Project Contributor (2004 – present)

I have focused on helping the Open Source KDE project specifically in the area of Personal Information Management (PIM) and PDA/Desktop synchronization. In the short time I've been involved with the project, I have:

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- Architected, designed, and implemented a Palm PDA Memo-Database-to-filesystem synchronization conduit for the KPilot suite, which was accepted into the KPilot project and was released with KDE 3.4.
- Assisted in the resolution of bug reports and problems, communicating with both the user community and the core development community for KDE PIM.
- Contributed patches and bug-fixes related to synchronization between Palm PDA applications and KDE's Address Book, To-Do, Calendar, and Notes desktop applications.

The Blackbox Window Manager

Open Source Developer and Project Contributor (1999 – present)

Blackbox is one of the best-known and loved minimalist Open Source Window Managers for the X Window System. I have been an active contributor of code, user support, testing, bug fixes, and supporting projects for Blackbox. Two of my personal Open Source projects exist solely to support Blackbox. Some of the areas of my involvement with Blackbox through the years are as follows:

- Contributed new code and bug fixes to the Blackbox project directly.
- Assisted in the development, testing, shared-library API, and discussions for Blackbox, working closely with the project leaders.
- Designed, wrote, maintain, manage releases for, and support users of the Open Source (BSD Licensed) Blackbox keyboard interface, bbkeys (written entirely in C++, STL and Xlib).
- Designed, co-wrote, maintain, manage releases for, and support users of the Open Source (GPL) Blackbox configuration utility, bbconf (written in C++ and Qt).

SKILL & EXPERIENCE SUMMARY

Architecture and Design:

- RUP (Rational Unified Process): I am a core member of the development team for the Rite Aid Corporation's NexGen Pharmacy System. I hold responsibility for keeping others accountable to following the crucial steps in our methodology.
- UML: Rational Rose, Embarcadero Describe, Umbrello, Borland Together. Modeling Class, Sequence, Activity Diagrams, and others.
- Design patterns and pseudo-patterns: I am responsible for the oversight and architectural integration of Design Patterns, including Observer/Observable, ModelChangeListener/Notifier, Lazy Instantiation, Abstract Factory, others.

Programming Languages:

- Java: I am very well-versed in Java's Swing and AWT layers, Server Sockets, JNI, synchronous and asynchronous multi-threaded client and server enterprise-level, mission-critical applications.
- C: I have developed enterprise-level TCP/IP and UDP servers and clients, serial interface middleware, Gtk, GNOME and Xlib applications.
- C++: In combination with the STL, Qt, KDE and Xlib.
- Perl, PHP: I have enterprise-level experience developing database-driven web applications such as E-Commerce integration, back-end reporting, dynamic content and maintenance applications..
- Unix Shell: Expert in csh, ksh, sh, zsh, bash programming.

EDUCATION / CERTIFICATION

San Diego State University

- Mathematics Major with emphasis in Computer Science, Minor in Computer Science.

Linux Professional Institute

- LPI Level 1 certification