

Professional Summary

A leader and architect with more than twenty years of hands-on and leadership experience: leading teams, mentoring junior staff, gathering requirements, specifying, designing, documenting, implementing, and maintaining enterprise systems. Currently, designing and implementing system architectures for a global hospitality and gaming company. Most recently, implemented and supported a national airline's IT infrastructure, including two datacenter migrations. Previously, developed a full-stack, web-based authentication and authorization system for a statewide WiFi network; managed a multi-platform infrastructure supporting global brokerage information systems; developed file transfer infrastructure for 50TB datawarehouse/datamart/operational datastore; in a clinical environment planned and implemented an enterprise-wide SAN migration with no unscheduled downtime; doubled compute and tripled storage capacity; migrated tape backup from legacy library; managed a project to increase datacenter floor space by one-third and double primary datacenter power and cooling capacity; and wrote a system management and monitoring front-end for a global payments company.

Related Skills

- 20+ years leading *ad hoc* and permanent project teams
- 15+ years experience managing and implementing software, network, and infrastructure development projects
- 10+ years experience with structured project management methodologies and tools
- 15+ years experience with Unix, Linux, and Windows engineering and administration on IBM Power, Sun Sparc, and x86/AMD64
- 15+ years experience in Web site design and development with Linux, Apache, MySQL, PostgreSQL, Perl, and PHP

Supported Infrastructure

- AIX and RHEL on IBM pSeries
- AWS/Azure Cloud Services
- BSD
- Cisco UCS blade servers
- Dell PowerEdge rack and blade servers
- EMC VMAX and VNX storage
- HP Proliant rack and blade servers
- IBM DS- and ES-class storage, blade servers
- Lenovo HMC and X-series servers
- NetApp storage
- Oracle/Sun Sparc and x86 servers/Exadata/ZFS storage
- Red Hat Enterprise Linux/Debian GNU/Linux/Ubuntu
- Solaris
- VMware/VSphere/Horizon
- White box servers
- Windows Server 2003, 2008, 2012

Education

Baccalaureate/Bachelors degree (BS) in information technology (IT) University of Phoenix; coursework completed December 2002 and diploma awarded July 2003. Upper division GPA: 3.84. Pursued MBA studies at Webster University (one-third completed as of spring 2015).

Related Experience

April 2014-Present, Senior Systems Design Architect Direct Hire MGM Resorts International, Las Vegas, Nevada.

Design, build, and document best-of-breed information systems supporting 24x7 global hospitality and gaming operations. Increase cooperation among cross-functional teams. Provide third-tier support for end users.

- Engage with senior technical leadership on strategic information technology initiatives
 - Budget and schedule considerations
 - Project prioritization
 - Feasibility analysis
- Develop and clarify system requirements
- Architect and implement software and hardware infrastructure solutions for business critical projects
- New system build-out
- Create, review, and contribute to design documents
- System design and serviceability decision-making
- Assure compatibility of components and operating characteristics of subsystems in multi-vendor environment
- Recommend technology optimizations, performance tuning, and process improvements
- Mentor systems engineers and help raise the technical knowledge in the team
- Leverage systems management tools to develop and deploy software builds, implement server monitoring and management applications, manage capacity, etc.
- Lead ITIL processes -- incident/problem, change, and release management, etc.
- Support PCI, SOX, NGCB, and other regulatory requirements

Principal Technologies:

- IBM AIX and VIOS on IBM P-series platforms
- Red Hat Enterprise Linux on Dell and Cisco blade servers
- Oracle Linux on Exadata and ZFS
- VMware VSphere and ESXi on Dell and Cisco blade servers
- AIX on IBM Power5, Power6, and Power7 platforms

- Microsoft Windows 2003, 2008, and 2012 Server on Dell and Cisco blades and Dell servers
- Juniper and Cisco switching and routing
- A10 and Citrix NetScaler load-balancing
- Apache-SSL
- Oracle and MySQL
- CA Service Desk/CA UIM
- Oracle/Micros Opera
- Microsoft SCOM and SCCM monitoring and configuration management platforms
- Secure Shell (SSH)
- Infoblox DNS

In a mixed Windows, AIX, and Linux environment.

Related Experience

June 2012-January 2014, Systems Engineer Direct Hire Allegiant Travel, Las Vegas, Nevada.

Design, build, support, and document best-of-breed information systems supporting 24x7 safety-critical flight operations and general business requirements. Increase cooperation among cross-functional teams. Provide third-tier support for end users.

- New system build-out
- Architect and implement software and hardware infrastructure solutions for business critical projects
- Review, create, and contribute to design documents
- System design and serviceability decision-making
- Assure compatibility of components and operating characteristics of subsystems in multi-vendor environment
- Recommend technology optimizations, performance tuning, and process improvements
- Mentor systems engineers and help raise the technical knowledge in the team
- Leverage systems management tools to develop and deploy software
- builds, implement server monitoring and management applications, manage capacity, etc.
- Create, schedule, and implement production changes such as applications, software upgrades, roll out of security and system patches, bug fixes, etc.
- Participate in ITIL processes -- incident/problem, change, and release management, etc.

Principal Technologies:

- Red Hat Enterprise Linux and SLES on Dell and Cisco blade servers
- VMware VSphere and ESX on Dell and Cisco blade servers
- RHEL 6 and AIX 6.1 on IBM Power7 p550, p740, and p750 platforms
- Cisco switching and routing
- F5 Big IP load-balancing
- Apache-SSL
- Drupal content management
- Tomcat and JBoss Java application server platforms
- MySQL and DB2
- Subversion, Git, and Atlassian Stash source control and configuration management tools
- Atlassian JIRA and Confluence incident- and bug-tracking
- Nagios system monitoring platform
- Secure Shell (SSH)
- Memcache and Varnish
- Red Hat Satellite and Identity Management (IPA)

In a mixed Windows, AIX, and Linux environment.

February 2012-May 2012, Senior Systems Engineering Consultant Contract GCI, Anchorage, Alaska.

Systems architecture, development, and implementation of a statewide WiFi network authentication and authorization mechanism.

- Lead technical role for new system build-out capabilities
- Architect and implement software and hardware infrastructure solutions for business critical projects
- Review, create, and contribute to design documents
- Collaborate with engineering, development, and operations teams on system design and serviceability
- Assure compatibility of components and operating characteristics of subsystems in multi-product environment
- Recommend technology optimizations, performance tuning, and process improvements
- Mentor systems engineers and help raise the technical knowledge in the team
- Leverage systems management tools to develop and deploy software builds, implement server monitoring and management applications, manage capacity, etc.
- Create, schedule, and implement production changes such as applications, software upgrades, roll out of security and system patches, bug fixes, etc.
- Ensure that appropriate documentation and training (RunBook and Work Instructions) is delivered to First Level support team
- Participate in ITIL processes -- incident/problem management, change management, release management, etc.

Principal Technologies:

- Debian GNU/Linux
 - Perl
 - Mojolicious framework
 - Apache-SSL
 - ISC DHCPD
 - FreeRADIUS
- AMD- and Intel-based Dell and white-box servers
- Cisco switching and routing
- Mercurial source control and configuration management
- Database Interface (DBI/DBD)
- HTML with Cascading Style Sheets (CSS),
- JavaScript
- ModPerl/mod_perl
- MySQL
- PostgreSQL

July 2011-January 2012 Senior Systems Engineer Contract Thomson Reuters, Creve Coeur, MO

Operational full-platform support of multiple n-tier applications in a Web-centric framework. Provide technical expertise within a team focused on the implementation and service delivery of products, systems & networks in an investment & advisory delivery team. Ensure successful implementation of new functionality while maintaining or improving existing service levels. Ensure compliance to operational standards, procedures and best practices. Closely liaison with various operational, project, development, and product teams as well the service organization.

- Function in a lead technical role for the implementation of new products and capabilities
- Architect and implement infrastructure solutions for business critical projects
- Review, create and contribute to design documents
- Collaborate with development teams on system design and serviceability
- Assure compatibility of components and operating characteristics of subsystems in multi-product environments
- Recommend technology optimizations, performance tuning and process improvements
- Mentor system engineers and help raise the technical knowledge in the team
- Leverage systems management tools to automate server builds, deploy software packages, monitor servers, manage capacity, etc.
- Schedule and implement production changes such as applications, software upgrades, roll out of security and system patches, bug fixes, etc.
- Ensure that appropriate documentation and training (RunBook and Work Instructions) is delivered to First Level support team
- Participate in ITIL processes -- incident/problem management, change management, release management, etc.

Principal Technologies:

- Solaris
- Red Hat Enterprise Linux (RHEL)
- Eikon for Wealth Management
- Thomson Reuters Knowledge Direct API
- Sun/Oracle Webservd
- Bourne, Korn, and Bash Shells
- HP Service Manager
- cron
- Perl
- HP Service Manager 7

In a mixed Windows, Solaris, and Linux environment.

June 2010-July 2011 Senior Unix Architect Contract Wells Fargo Advisors, St. Louis, MO

System programming, technical oversight, architecture, and quality control of data management projects in multi-terabyte relational database environments using operational data store, data warehouse, and data mart architectures. Detailed implementation of Unix shell scripting and file transfer technologies and techniques. Develop technical approaches and ensure that proper data management guidelines and standards are followed. Project leadership, planning, and organization. Resource management within the context of assigned projects.

Principal Technologies:

- Unix
 - AIX
 - Solaris
 - Linux
- File transfer technologies:
 - Connect:Direct/NDM
- FTP
- SFTP
- Relational database design and development
 - Oracle
 - DB2
- ETL design and development
 - Batch systems and processing
 - Korn Shell
 - Autosys
 - cron
 - Perl

In a mixed Windows, AIX, Linux, and Solaris environment.

February 2008-February 2010 Unix Administrator Lead Direct Hire St. Anthony's Medical Center, St. Louis, MO

Total responsibility for administration of all Unix systems and storage area network (SAN) devices in the clinical environment, including:

- System implementation, patching, and monitoring (AIX, Red Hat Linux, CentOS, Debian, Solaris)
- High Availability Clustering (HACMP/PowerHA)
- System logical partitioning and virtualization (LPAR/VIOS,

VMWare VSphere and ESX)

- System backup (Tivoli Storage Manager/TSM)

- System security
- Disaster recovery planning

Project management and implementation:

- Doubled primary datacenter cooling and trebled electrical capacity
- Responsible for specification and implementation of new Epic hardware infrastructure, OS selection, installation, and configuration
- Migrated tape backup infrastructure from IBM 3494/3590 to IBM TS3310/LTO4
- Migrated storage infrastructure from IBM 2105/ESS 800 to IBM DS5300 fronted by IBM SVC. All Unix systems migrated with zero downtime. Windows and VMWare systems migrated with zero unscheduled downtime.
- Migrating SAN from McData 6064 directors to Cisco 9506 directors

Systems analysis and architecture:

- Liaison with internal and external clinical and support workgroups to determine and document infrastructure requirements, specify required hardware and software, design appropriate solutions, implement the design, and assure ongoing solution support

Leadership:

- Supervise one technician and oversee outside consultants
- Mentor technical staff
- Manage vendor relationships
- Develop and implement process improvement plans
- Specify and justify capital and operational budget hardware and software expenditures totaling more than \$2 million annually

Principal Technologies:

- AIX on IBM Power5 and Power6 H70, H80, p520, p55A, p550 and p570 platforms
- IBM PowerHA/HACMP Clustering
- IBM Tivoli Storage Manager (TSM)
- IBM 2105/ESS 800 "Shark" and IBM DS5300 Storage
- McData 6064 and Cisco 9506 SAN Fabrics
- IBM DS4000, 4100, 4700 "FAStT" Storage
- IBM TS3310 Tape Storage
- GE Healthcare Centricity Pharmacy
- McKesson Star Clinicals and Star Financials
- MedPlus ChartMaxx
- Oracle, MySQL, and MSSQL
- Microsoft Windows XP, Server 2003, Server 2008 on IBM X-series platforms

March 2005-February 2008, Engineer, Software Engineering; Senior Engineer, Software Engineering Initially Contract, then Direct Hire MasterCard Worldwide St. Louis Global Technology and Operations Headquarters, O'Fallon, MO

Built enterprise-scale web-based system monitoring and configuration solutions over Tivoli Management Framework using Apache, Perl, Oracle, and the Korn Shell on Solaris, AIX, Windows 2000, and Windows 2003 platforms, including:

- Requirements gathering and specification documentation
- Project planning
- Program design and implementation
- Unit, integration, and user acceptance testing
- Ongoing project maintenance

Liaison with all other internal workgroups for global, multi-site business continuity plan development and testing.

Development of a Service Catalog as part of a move to Service-Oriented Architecture under an ITIL migration.

Implementation of a service desk infrastructure with IBM's ITSM tools.

Configuration and administration of Tivoli Workload Scheduler, TelAlert, and supporting technologies (Tomcat, Oracle, Apache, WebSphere)

Training and mentoring junior technical staff.

November 2004-March 2005, Software Engineer Contract Mark Monitor®, San Francisco, CA

Built enterprise-scale web-based solutions using PHP, MySQL, Apache, Perl, and BASH on Linux platforms, including:

- Requirements gathering and specification documentation
- Project planning
- Database design and implementation
- Program design and implementation
- Testing
- Ongoing project maintenance

December 2003-November 2004, Information Specialist II Direct Hire C/Net Solutions, Sacramento, CA

- Performed telephone-based and in-person application support responsibilities for Windows-based, database-enabled, network-aware desktop applications in a healthcare research environment..

October 2003-December 2003, Programmer Consultant/Director of information Technology Contract nerdbooks.com, Roseville, CA

- Directed all aspects of a web-based bookseller's Internet and internal network operations. Managed staff of three full-time-equivalent developers. Analyzed business processes and systems to determine appropriate maintenance schedule, assign duties, manage projects in progress, and strategize growth. Developed scripts and programs to automate, streamline, and upgrade data transfers to and from suppliers and customers.

- Built ecommerce solutions using PHP, PostgreSQL, MySQL, Apache, Perl, and BASH on Linux platforms, including:
- Requirements gathering and specification documentation
- Project planning
- Database design and implementation
- Program design and implementation
- Testing
- Ongoing project maintenance

August 2000-February 2003, Senior Programmer II Contract WorldCom, Sacramento, CA

Administered intranet and designed, coded, optimized, and maintained WorldCom customer Web applications. Administered multiple servers on multiple platforms (Linux, Solaris, Windows 2000, Windows NT). Worked on all phases of the system development life cycle (SDLC) to develop web-available, real-time database-generated reports; responsibilities included determining customer requirements through specification and design, implementing, testing, documenting, and maintaining finished software. Helped develop a web-enabled database-driven reporting system (using the Actuate e.Reporting Suite) deployed throughout the government of the State of New Jersey. Major contributor on two other web-based ecommerce systems (using Apache, Perl, Oracle, BASH, and LaTeX) deployed throughout the States of Maine and Washington for use by state agencies and the general public. Administered additional supporting technologies (Tomcat, WebLogic, WebSphere).

September 1997-August 2000, Webmaster Direct Hire Association of California School Administrators, Sacramento, CA

Designed, coded, programmed, edited, optimized, maintained, and updated cross-browser Web site for 15,500-member association using HTML, DHTML, CSS, JavaScript, and Perl with CGI on MacOS desktop and FreeBSD server. Created and otherwise acquired graphic and editorial content. Managed passwords and site security. Mediated site forums and chat rooms. Managed interactive online calendar. Designed and implemented e-commerce solutions. Created, maintained, and integrated databases. Determined site needs and design specs. Achieved consensus with association leadership and executive staff on editorial focus and member services. Wrote articles and a regular column about technology in education for *EDCAL* bi-weekly newspaper and *Educational Leadership* bi-monthly magazine, each with a circulation of more than 16,000. Presented complex, highly sensitive election law materials to school district employee groups, including superintendents, department heads, and rank-and-file employees. Delivered technical training to other school district staff.

October 1996-present, Owner/Creative Director Principal El Dorado Tech, LLC

Prepare and implement business plan for development and expansion of information technology consulting and training firm. Full profit and loss responsibility and budgetary authority. Develop and implement marketing and sales strategies for business growth.

Provide system architecture, design, programming, consulting, implementation, and training services to various clients, including: Wellmont Health System, the Association of California School Administrators, nerdbooks.com, the Association of California Community College Administrators, California Highway Patrol Network Planning Division, Management Analysis & Planning, Community College Facility Coalition, and others.

Write syllabi, training manuals, and tutorials for print and online delivery.

January 1993-September 1997, Webmaster/Editor/Legislative Assistant, Initially Contract, then Direct Hire Murdoch, Walrath & Holmes, Sacramento, CA

Managed and implemented World Wide Web site for the Coalition for Adequate School Housing (C.A.S.H.); coordinated with Internet service provider, supervised consultants, and advised board of directors; tracked expenses and managed budget; designed and managed World Wide Web site for Murdoch, Walrath & Holmes.

Wrote, acquired, edited & formatted articles, graphics & advertisements for 24-28 page, two-color monthly association newsletter, the *CASH Register* (circulation: 1500); coordinated with editorial committee, printer and typesetter; tracked expenses and managed budget; assembled other publications as necessary.

Engaged media in school facility issues; promoted public involvement in school facility funding issues; produced op-ed material for news outlets.

Answered media inquiries. Organized policy/strategy planning meetings and coordinated with campaign, legal and accounting staff through five Statewide ballot measures. Facilitated fund-raising efforts (more than \$500,000 directly attributable to me) and FPPC reporting.

Assisted in planning conferences and workshops.

Relevant Volunteer Experience

March 2011-February 2012, Coach and Mentor; FIRST Lego League, Team Motherboard Mayhem, sponsored by FIRST Team 1094, the River City Robots Channel Cats

October 1999-September 2000 Vice President; Buckeye Elementary School Site Council, elected position.

September 1998-October 1999 Councilmember; Buckeye Elementary School Site Council, elected position.

1997-1998 Administrative Councilmember, Webmaster; Sacramento Chapter; Society for Technical Communication, appointed position.

References

Available upon request.