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Manager, Services Architecture

Overview

Qualifications

- Long history of designing and implementing enterprise systems in the e-commerce field
- Competent and experienced in developing all tiers of a web application stack
- Extensive experience with load testing, troubleshooting, and security analysis
- Successfully implemented enterprise-scale build, test, and deploy tools and processes
- Experienced manager with a long history of providing guidance and training to others
- Strong drive and ability to learn new technologies/methodologies and the experience to apply them effectively

Languages

C#, JavaScript, PHP5/PHP4, perl, Erlang/OTP, VB6, XSLT/XPath, ASP
VBScript/Jscript/PerlScript, ASP.Net, SQL/PL-SQL, Ruby, *NIX shell scripting, XSD,
XUL, XPIDL, IDL, Python

Technologies/Frameworks

NodeJS, .Net 1.1/2.0/3.5, Web Services (SOAP, WSDL, REST/JSON), XML, HTML
3/4, Mozilla Extensions, CSS 2/3, AJAX Libraries (Scriptaculous, Prototype, jQuery,
Ext2/YUI, MooTools, Dojo, etc.), Ruby on Rails, Mochiweb, WebMachine, Nitrogen,
CakePHP, Thrift, standard *NIX utils, RSA BeSafe

Software/OS

OS X, Linux, Windows 2000/XP/2003, MySQL 4/5, Apache, Eclipse, VS.Net
2003/2005/2008, Openfire and eJabberd XMPP servers, SVN, VSS, Git, IIS 5/6,
SQL Server 2000, CouchDB, SQLite, Oracle 10g/11g (single and grid), IBM Rational
(spec. ClearQuest, ClearCase, and Modeler)

Recent Projects

CDub Tech / Tautologistics

- *JSonduit.com* – a JSON gateway allowing data in any format/location to be accessible to any browser. Built using NodeJS, Redis, and Nginx
- *Nokia Gallery* – showcase for Nokia's presencing technology; uses an OAMP stack (OSX instead of Linux) and is being deployed in Nokia Research Centers worldwide
- *TripDub* – Firefox extension that embeds a threaded, scriptable cross-platform web server in the browser and XULRunner
- <http://github.com/tautologistics/>

BarnesandNoble.com

- Nook SyncML Server - a standards compliant sync service to synchronize digital and user-generated content between web, desktop, and mobile clients
- BN Community - lead a team of 12 that designed and built the community site (my.barnesandnoble.com) and replaced the legacy wish list system
- VB6/COM to .Net - technical lead on company's transition from VB6 codebase and re-architecture. Included SOA approach to securely expose different classes of data to parent company, business partners, and the general public
- Automated Build/Test - established a department-wide build and test process that includes an automated build server (ECI), unit testing, code analysis, and deployment

History

Technology Consultant / Owner

CDub Tech / Tautologistics, Oakland, NJ

1995 – Present

Services & Clients

- Consultant for Nokia Research C3 team, working on development of next generation mobile applications and services
- Re-architected PHP CMS that is customized and deployed on branding sites for organizations such as Nike, Toyota, and AARP
- Provide on-site IT support for BasicBasic/Tee-Zone websites, store, and warehouse

- Contribute patches and features to open projects such as Scribfire, Strophe, jQuery
- Consult on e-commerce solutions
- Troubleshoot hardware/network issues
- Analyze and define development processes
- Modify and debug software systems

Manager, Services Architecture*08.2007 – 09.2009*BarnesandNoble.com *New York, NY***Responsibilities**

- Establish processes for developing, building, testing, and deploying systems
- Diagnose and treat critical production failures and performance issues
- Establish standards for exposing data and business processes as web services
- Teach developers profiling and code analysis techniques and guide them in system design
- Work with security team to identify security flaws through system scans and code audits

Accomplishments

- Architected and lead the development of the Nook sync/data services responsible for digital content delivery, firmware updates, and community integration
- Lead team that designed and built the web services, .Net API, and Oracle database for BN Community. The system also replaces the large legacy wishlist and review systems
- Lead design and development of the digital book viewer, which includes a DRM/policy system, remote caching service, and back-end integration with external publisher services
- Developed core .Net framework used department-wide. Framework covers configuration management, client data storage, content caching, encryption and key management, reporting/logging, and configurable logic engine
- Designed and lead development of web services, which expose product data to both back-end systems and browser-based applications

Manager, Website Architecture*07.2003 – 08.2007*BarnesandNoble.com *New York, NY***Responsibilities**

- Define development processes that improve the speed and quality of development, testing, and deployment
- Identify production flaws before they become critical and assist with developing fixes and deployment plans
- Review architecture and code under development for quality and extensibility
- Work with security team to identify holes in production and development code
- Provide emergency support for critical production issues

Accomplishments

- Led code reviews and software optimization efforts. Largest project reduced search and product page server load by 45% and increased server stability
- Developed guidelines and tools that improved the development and deployment process to allow 70% more deployments per quarter
- Developed automated profiling toolset to analyze VB6, C++, .Net, and XSL
- Member of architecture team that completely redesigned e-commerce system
- Architected SCM and automated deployment system to manage developer workflow. Managed team of 2–4 developers to develop system and integrate with existing VSS repositories and Rational software. System reduced production deployment issues by 95%, deployment time by 85%, and development time by 20%
- Architected new content caching system that supports live configuration health monitoring. Cache currently handles 1400MB of content in 20,000 projects and is 900% faster than the original cache
- Performed security code audits and developed security tools and guidelines to bring company into PCI compliance

Website R&D Lead

06.2000 – 07.2003

BarnesandNoble.com *New York, NY*

Accomplishments

- Architected and implemented data encryption system used to secure online ordering system and personalization data
- Built framework for loading, caching, and rendering XML/XSLT used by all front end systems
- Managed development of new XML-based web interface for books search engine
- Led teams in efforts to convert existing production code and content to XML/XSLT
- Developed XML/XSLT standards for company-wide adoption
- Administered department's intranet and development servers
- Built an SQL/ASP-based permission system to control access to production content tools
- Created interdepartmental resource/job request tools with resource management, status tracking, and productivity reporting
- Retrofitted legacy production CMS to work with new XML content structure
- Built web server log analysis tool to generate statistical reports and track user sessions
- Created framework to analyze production page weight and complexity and track size trends over time

Content Engineer

07.1999 – 06.2000

BarnesandNoble.com *New York, NY*

Accomplishments

- Headed project to integrate existing site with DoubleClick banner service
- Designed and implemented BN.com's mini-cart, displayed on the left side of every page
- Converted BN.com's navigation system data and rendering code to XML/XSLT. New system was twice as fast, reduced server load 15%, and cut maintenance time by 70%
- Designed and implemented BN.com's dynamic "Add to Cart" buttons
- Created tool that scheduled targeted promotions on the BN.com homepage
- Participated in company performance and security teams

QA Analyst

07.1997 – 07.1999

BarnesandNoble.com *New York, NY*

Accomplishments

- Redesigned BN.com's legacy navigation system and page layout code, improving server performance and shortening development cycle
- Wrote browser detection code to allow site to be custom tailored to the browser/version/OS of the client
- Member of BN.com's team charged with monitoring and improving all aspects of site performance and security
- Built and managed testing software and hardware used to do automated testing, component regression testing, and performance benchmarking
- Wrote and maintained tools used to monitor site performance, average page size, and site design standards