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Objectives

Build applications that help people work better.

Work Experience

April 2006 - May 2010: Software Architect, Orange & Bronze Software Labs Designs and builds web applications, embedded systems, and other software, working with small to medium-sized teams as technical lead.

November 2003 - December 2004: Consultant, Asia Online Solutions Worked as a technology consultant and as a Java/.NET developer for Asia Online Solutions. Worked as a key resource in several projects. Implemented a version control system for the company. Actively used various open-source tools such as Hibernate and Apache Jakarta Velocity.

Projects

Digital Signage Designed and built a digital signage system under contract for a client. Content can be pushed out to individual signage nodes through the Internet. Management of content via a web interface. Signage system is a custom Debian-based system with XULRunner-based application providing the environment for displaying content, with Django-based application serving as the content management system.

Open Source Designed and built a custom RMI sampler and proxy for Apache JMeter, subsequently used for a performance audit.

Performance Audit Performed a performance audit on a large cargo handling software system. Said software system was a Swing-based client-server application launched via Java WebStart (JNLP), with RMI as the interface between client and server. A custom plugin for instrumenting RMI was developed for this project.

Legacy web applications Worked as a subcontractor on a system for registering and validating Comprehensive Third Party Automobile Licenses for the insurance companies. The existing system was retrofitted to register the CTPLs with a Land Transportation Office (LTO)-provided web service, in line with general automobile registration. The web service client was wired in using Spring and Spring remoting, with Axis as the JAX-RPC provider. A web service was also added to provide access to interested insurance companies. Additionally, to prevent screen scraping by unauthorized third parties, a CAPTCHA system was retrofitted to the login.

Web applications Helped complete several features for an internal receipts system, including an AOP- and annotation-based auditing system, and a Hibernate Interceptor that tracks changes made to particular model object properties, as annotated. The auditing system relies on annotations at the service method level to log the execution of particular service methods, while the Hibernate Interceptor uses annotations on object model properties to determine which changes to track.

Performance Audit Verified the performance characteristics of, and identified the hotspots within a medium-sized e-commerce site written in PHP and backed by a MySQL database. Issues identified include (but are not limited to) missing indexes on particular tables, sub-par performing queries. Client did not implement all recommendations made.

JMS/Messaging Worked on an asynchronous batch processing daemon that was hooked up to a large Philippine media company's payroll system; the daemon received tasks from the main web app through a Java JMS queue.

Web applications Worked on bonus and talents processing modules of a large payroll system for a large Philippine media company. Responsibilities include managing the build environment, adding session-aware encryption support, and managing AOP-related aspects of the system.

Java Developed several Java adapters for a large Philippine telecom's workflow system, to provide and integrate additional services for the telecom as a contractor.

Web applications Co-wrote and maintained a large Philippine telecom's web application for bulk sending of SMS messages. The web application was written in C# using ASP.NET. The web application uses backend web services to interface with the support database.

Windows Service Designed and implemented an LDAP to Microsoft Active Directory synchronization and migration utility, which synchronizes users defined in an LDAP v3 directory with Active Directory users.

Linux Provided a patch for the now-unsupported Motorola SM56 Linux kernel module that allows it to run on later version kernels. The original binary-only module was written for Linux kernel 2.4.6, and kernel memory management semantics for modules changed sometime after that.

Others Worked on other Java-based web application projects, not listed here. References available upon request.

Skills

Programming Proficient in several programming languages, with working or basic knowledge of several platforms and APIs. Works well under pressure and can quickly learn a platform or API within a month. Core skills: Java, Python, SQL (MS T-SQL and MySQL dialects, with some basic Oracle PL/SQL), HTML, CSS (up to CSS 2), and JavaScript/ECMAScript. Broad knowledge of computing, including various platform APIs (Java, .NET, Google AppEngine) and architectures.

Version Control Systems Proficient with the use and administration of the following version control systems: CVS, Subversion, Git (centralized via gitosis). Uses Git as an offline clone of an upstream Subversion repository; also works with native Git trees.

Networking and Administration Working knowledge of TCP/IP; extensive experience with Java Servlet programming, as well as Berkeley socket programming; broad knowledge of various internet protocols; experience setting up a Windows 2000 Active Directory server. Broad knowledge of general system administration on Windows XP/2000/2003. Competent systems administration on Linux (Ubuntu, CentOS/RHEL, Debian, and Slackware distributions); some experience setting up and administering various servers (Sendmail and Postfix MTAs, BIND DNS, MySQL and MS SQL Server 2000, Jakarta Tomcat 4.x and 5.x, Apache 2, Subversion, CruiseControl). Has worked with LDAP.

References

References and more information available upon request.