

JM Ibañez

Building applications to help people work better.

Work Experience

CodeFlux Inc.	September 2010-Present: Software Architect Designs and builds web applications. Acts as internal technical consultant for various in-house and client projects, general go-to guy for technical issues.
Freelance Web Developer	July 2010-Present Hired out services to various companies, building web applications and other software systems.
Sinefunc Inc.	June 2010 - August 2010: Software Engineer Worked with a team in developing a Ruby-based executive search web application.
Orange & Bronze Software Labs	April 2007 - May 2010: Software Architect Designed and built web applications, embedded systems, and other software, working with small to medium-sized teams as technical lead. April 2006 - April 2007: Senior Software Engineer Built web applications, working with small to medium-sized teams.
Asia Online Solutions	November 2003 - December 2004: Consultant 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.

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, JavaScript, Python, SQL (MS T-SQL, MySQL, and Oracle PL/SQL dialects, with some basic PostgreSQL PL/SQL), HTML, CSS (up to CSS 2). Broad knowledge of computing, including various platform APIs (Java, .NET, Win32) and architectures.
Version Control Systems	Proficient with the use and administration of the following version control systems: Git, Subversion, CVS.
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. Broad knowledge of general system administration on Windows XP/2000/2003. Competent systems administration on Linux (Ubuntu, CentOS/RHEL, Debian, and Slackware distributions); experience setting up and administering various servers (BIND9, MySQL and MS SQL Server 2000, Tomcat 4.x and 5.x, Apache 2, Subversion, CruiseControl, Hudson). Has worked with LDAP.

Projects

Web Applications

CMS Integration

Integrated an existing third-party application for displaying 3D content onto autostereoscopic displays, into a custom content management system for digital signage. Integration involved a small amount of reverse-engineering work to determine necessary integration points with the CMS.

Executive Search

Implemented several features of an executive search and recruitment web application in Ruby.

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.

Receipts System

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.

Payroll System

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.

Middleware

Telecoms

Implemented custom CIMD2 and SMPP endpoints for integration with a Spring Integration-based system.

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.

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.

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.

Performance Audit

Cargo Handling

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.

E-Commerce

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.

Open Source & Others

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: RMI

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

Open Source: 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.