

Eugene Ciurana

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Professional summary

System architect with over 15 years of experience developing mission-critical and enterprise systems. Open-source software evangelist, entrepreneur, intrapreneur, mentor, and enterprise systems community leader.

April 2009 – Present

CIME Software S.A. Mexico, London, San Francisco, Zurich Consultant

Consulting in the development, process management, and implementation of mission-critical, high-availability systems for two different clients in the New York area:

- * Tabula Digita: It's an educational products and services company who must scale their on-line operations from a few hundred daily interactions to tens of thousands interactions per-day. Defined the new technology base, built their in-house and augmented technology staff, designed the new SOA systems, and migrated operations from traditional co-lo to Amazon EC2. On schedule to migrate this to production on Sep. 23, 2009.
- * Cloudera: Leading company in the Map/Reduce high-performance data warehousing and processing area. Working on a joint project to replace Oracle with Hadoop for financial transaction logs processing at a top-three US investment firm. Designed and implemented the SOA software that bridges the FI's business systems with the Hadoop file and querying system.

March 2007 – April 2009

LeapFrog Enterprises Emeryville, CA USA Director of Systems Infrastructure

Defined the 5-year technology strategy for all web properties associated with the new connected products lines, e-commerce, reporting, third-party service integration, and the LearningPath educational system. System architecture and overall open-source, SOA strategy showcased in cover articles for eWeek Magazine (Aug. 2007) and CIO Magazine (Sep. 2008), and its evolution was featured in InfoWorld, Computerworld, TheServerSide.com, Nikkei IT, and other leading publications and conferences worldwide.

- * Designed, implemented and deployed all web properties around a "best of breed" IT model that favors open-source technologies, with proven savings of 70% over the same implementation rolled out with commercial software (Java 6, Java 5, Mule Integration Platform, GWT, Day Communiqué, Atlassian Crowd, Oracle, Tomcat, Spring, and Wicket)
- * Documented conception-to-production on-time delivery of less than 18 months for the 4 mission-critical systems corresponding to LeapFrog Enterprise's turnaround product effort: e-commerce, connected products, cloud computing CDN implementation, and third-party service provider integration (Acquity OnDemand, Amazon S3, LiveWorld, Nirvanix, Akamai, F5, Google App Engine)
- * Designed and led the team that implemented the scalable SOA and web infrastructure for handling a spike of over 250,000 sessions/hour (up from less than 150/hour) for connected products signing up on Christmas Day to use web page servers, application servers, REST and SOAP calls from our educational devices, and rich content delivery and tracking (images, PDFs, audio, video, interactive games)
- * Built the complete Web Engineering development team from scratch (~20 + contractors) by combining best-of-breed strategies and innovative recruiting techniques that resulted in 80% of our team being active contributors to every open-source product or service in our shop (Mule, Apache, Tomcat, Wicket, GWT, Hibernate, Perl, Jetty, Linux, etc.)
- * Official spokesperson for the LeapFrog R&D Web Engineering team at more than 12 advanced and enterprise computing conferences in the United States, Mexico, Europe, and Japan (TheServerSide Java Symposium, JavaZone, MuleCon, Open Source Business Conference, Seasar [.jp], and Osaka Gas Research Institute, among others)

June 2004 – March 2007

Walmart.com Brisbane, CA USA Director of Platform Technologies and Enterprise Architect

Started as sr. software engineer and promoted within 17 months to manager of digital life client products (direct reports and

product management), architect, and then director of platform technology and enterprise architect in charge of our SOA initiatives.

- * Architected and delivered the SOA based reference platform and proof of concept infrastructure for Wal-Mart Global and aligned business requirements with technology stack. Solaris 10, Ubuntu Linux, Mule ESB, Atlassian IDX, Java 5, Java 6 Mustang, Oracle 10g, Terracotta, Webmetrics, ProactiveNet, Subversion, TIBCO BusinessWorks, Xfire web services (Dec 2006).
- * Led the first-time adoption of Linux and other open-source technologies at Wal-Mart Stores Information Systems Division as chief liaison between Walmart.com Global and the ISD Technology Council (2006)
- * Architected technology for the site redesign, fulfillment systems, and supervised the new digital streaming media (video, audio) products. .Net, Java 5, J2EE, Oracle, Javascript, Tomcat, caching, Akamai and other CDNs, Webmetrics, OpenLaszlo, Webmetrics for Flash streaming (Garth Brooks, media download manager, Soundcheck, site redesign Mar 2006).
- * Developed the foundations for mobile, rich Internet applications, and PC-based media client infrastructure. J2ME, Windows Media, .Net, Java Media Framework (Aug. 2005).
- * Honors graduate from Wal-Mart Store's Walton Institute management bootcamp (Aug 2005).
- * Architected and supervised the migration to Java 5 for the core business platform Java 5 (Jun 2005).
- * Architected a variety of web services, alerts, and performance metrics services for supporting main line of business applications with average daily revenues of at least \$300,000; Linux, Solaris, Java, .Net, IIS, Tomcat, Axis, ProactiveNet (Nov. 2004).

1998 - 2004

CIME Software Labs
San Francisco, CA USA
Systems Architect

Started this company to create turnkey networked embedded applications for OEMs and service providers. Led the development of the company's DXA (Dynamic Execution Architecture) product, an OSGi-compliant embedded server and application delivery platform that allows remote device administration and software updates over a network. Managed the development of DXA-based OEM products and training for most of the company's clients. The company shifted focus from software development to turnkey system design and implementation consulting in 2001. A few significant projects from this period include:

- * Design and implementation of a distributed video conferencing system over the web, combining servers in the United States and Brazil, and subscription clients from all over the world. J2EE, MySQL, Helix Media Server, Helix and Windows media encoders, Windows 2000, Red Hat Linux, PHP, Python, and Javascript (XVN do Brasil, Ltd.).
- * Implementation of a bridge between a J2EE-based enterprise video product and Microsoft Exchange 2000, enabling them to share scheduling, address book, time-zone and locality data between them. J2EE, WebDAV, LDAP, Solaris, Oracle, Windows 2000 Server. (VSGi, Los Gatos, CA, www.vsgi.com; The Duncan Group).
- * Design and implementation of a high-performance image retrieval (check presentment), conversion, and display system. Optimized turnaround from 50 seconds per image request at peak load of 200 concurrent users to 3.5 seconds at peak of 1000 users. J2EE (EJB, servlet), Websphere, Solaris, AIX, NCR Unix, Oracle, Java Advanced Imaging, Jimi, DXA (Bank One, NYSE: ONE).
- * Design, implementation of DXA-based industrial robot (real-time) controllers for oil drilling platforms that replaced the company's previous main product, based on PLC technology. J2ME, Real-Time Specification for Java, IBM j9 Java Micro Edition, Insignia/Esmertec Jeode EVM, servlets, applets, DXA, NetClue embedded browser, Monta Vista Hard Hat Real-Time Linux, TCP/IP, Profibus; training (Varco International, NYSE: VRC).
- * Design and implementation of distributed e-Commerce embedded application for consumer software and digital goods. J2EE (JDBC, servlets, EJB, JMS), applets, DXA, Jetty web server, Oracle, Solaris, Windows 2000, Active X, C/C++, Python (DigitalSquare, Inc. www.digitalsquare.com).
- * Java technology advisory consultant for new products (Java 1.2, Java Embedded Server 1.0, OSGi, Java Workbench). Java technologies, from the JVM specification to the Swing API, programming API, and JavaSpaces specification (Sun Microsystems, NASD: SUNW, The Duncan Group)
- * Consulting architect for custom end-user financial application infrastructure (including creation of a new GUI system) with a unique "corporate identity" look. Various Java technologies (Credit Suisse Private Banking, NYSE: CSR).
- * Chief consulting architect for implementation of new on-line banking technology (home and corporate) and integration with legacy systems. J2EE, Integrion, OFX, IBM MQ Series, CICS, Websphere, iPlanet, MoneyScape, MVS, AIX, Windows NT/2000, Solaris, J2ME (Bank One, NYSE: ONE)

1990 – 1997

LAN SuperVision, Inc.
San Ramon, CA USA
Sr. VP Strategic Development (Executive Committee)

Chief architect of the company's main product, CMF, at the time the most efficient and reliable fully automated remote software distribution and configuration system worldwide (99.999% reliability -- Gartner). Worked on the original development team at Bank of America (C, C++, Smalltalk) from 1990 - 1993 when the LSVi company was called IIS. Won the 1993 Computerworld best OOP implementation award. In 1993 negotiated the rights to re-design and sell CMF for 32-bit systems. Complete architecture, design and implementation of CMF 3.0 (32-bit) for DOS, OS/2, Novell NetWare, and Windows systems (C, C++, REXX, Smalltalk, CICS, LU 6.2, C+@, IPX/SPX, NetBIOS, DB2). Supervised the successful deployment of CMF at various Fortune 500 companies as well as companies in Europe. In 1996, created the blueprint for the next generation of CMF that added remote device configuration (EIA) and a common, portable SQL database of system configuration and software distribution (Oracle, DB2, Solaris, NT). In late 1996 and until leaving in March 1997 worked on a new set of Java-based services implemented by CMF/EIA.

1990

International Business Machines
Palo Alto, CA USA
OSI Interoperability and Conformance

OSI stands for Open Systems Interconnection, an ISO/CCITT standard for interoperability of multi-vendor equipment over networks. The OSI reference model maps the structure of the Internet communications protocols and methods. Responsible for automated conformance testing between IBM mainframes (VM and MVS) or RS/6000 AIX equipment and third-party vendors. Programming in C/C++, ASN-1 data exchange protocol, upper 5 layers of the OSI stack.

1984 - 1990

CIME Consultores, S.A. / Laboratorio Electrónico Digital
Guadalajara, Jal. / Celaya, Gto. MEXICO

Founder and creator of the InterFácil system management software (12,000 licenses sold), a pre-Windows configurable user shell (C, MS-DOS). Design and development of copy protection, engineering, and automatic control systems software under IBM PC/MS-DOS, OS/2, Apple II/Ie/IIf/Macintosh, TRS-80 models I through III, PDP-11/22 industrial controllers, and IBM RS/6000 under AIX. Other control applications included software for satellite tracking and digital decoding systems (TMS-7000 assembler in Ma/Com and General Instruments boxes). Applications written for the Honeywell TDC-2000 industrial controller. Company's intellectual property and assets sold to an IBM subsidiary in March 1990 after porting our engineering software to the (then) new RS/6000 workstations and servers (C, C++, AIX).

Education

- * 1990, Ingeniería en Computación (Computer Engineering); dissertation *Implementation of a C++ Compiler for Personal Computers*, Universidad Autónoma de Guadalajara, Guadalajara, México.
- * 1985, Mercadotecnia y Humanidades bachillerato (Marketing and Humanities), Universidad de Guanajuato, Celaya, México.

Technologies

- * Java, Objective-C, C/C++, Smalltalk, assembler (x86, TMS-7000, Z-80, JVM), Pascal, Ada
- * Cloud computing: Amazon EC2, Google App Engine, Rackspace, Nirvanix, Eucalyptus
- * UML/XMI and modeling tools: Poseidon, ArgoUML, Rational Rose, OmniGraffle
- * Enterprise Service Bus: Mule, ServiceMix, TIBCO BusinessWorks, Websphere ESB, Sonic ESB
- * Single sign-on: Atlassian Crowd, Sun Microsystems' SSO
- * Enterprise caching: memcached, Terracotta DSO, Terracotta Sessions; Tangosol Coherence
- * Python, PHP, Ruby, bash/csh, ColdFusion, JavaScript, Tcl/tk
- * Linux, Mac OS X, Solaris, AIX, Windows (NT/XP/CE), MVS/TSO, VM/CMS, OS/2, QNX, *BSD
- * Tomcat, Sping, Websphere, Weblogic, JBoss, Orion; contributor to the Jetty web server open-source project; Helix Universal Media Server, Darwin Streaming Server
- * J2EE (EJB, JMS, servlets, CORBA/RMI/IOP), J2ME, MIDP, RTSJ, .Net, web services, XML, SOAP, Oracle, PostgreSQL, SQL Server, MySQL, DB2, CICS, ActiveMQ, MQ, OSGi/JES, LDAP, XSL/XSLT, XSL-FO, WebDAV
- * Network: TCP/IP, OSI, NetBIOS, IPX/SPX, BACNet, Profibus, LU 6.2, SNA

Teaching Experience

- * Speaker at at least 5 international conferences every year in topics of applied high technology
- * Speaker at the Embedded Systems Conference, Internet Device Builder, Embedded Linux Consortium, 1999-to-date.
- * Java technologies (programming, architecture, IT management) for various CIME customers since 1998.

- * Technology Exchange Company (Addison Wesley), Intro and Advanced Java, 1997.
- * Visiting professor, Object-Oriented Design and Programming, Bank of America University, Concord, CA 1992.
- * Professor, Computer Engineering Faculty, Universidad Autónoma de Guadalajara, 1988 - 1990, in the areas of Compilers, C Language, Data Structures, Artificial Intelligence (1 semester) and Operating Systems (graduate and undergraduate levels).
- * Visiting lecturer, Computer Architectures, Universidad del Valle de Atemajac, Guadalajara Jal. Mexico, 1988

Publications

- * Over 50 feature articles in English, Spanish, and French about advanced systems architecture, design, and programming techniques for research analysis and applied technology publications such as Cutter Technology Review, TheServerSide.com, Computerworld, Informatique!, PC/Tips, Byte Magazine, etc.
- * *Developing with Google App Engine*, Apress, Dec. 2008, 150 pp.
- * *SOA Patterns RefCardz*, DZone, Dec. 2008
- * *Scalability and High Availability RefCardz*, DZone, Jan. 2009
- * *Best of Breed: Building High Quality Systems, Within Budget, On Time and Without Nonsense* (tentative title), Harper Business, Dec. 2009
- * *The Tesla Testament: A Thriller*, CIMEntertainment BV, Oct 2006 (Amazon US best-seller Dec. 2007)

Leadership

- * MuleSource, Inc. Technology Advisory Board, May 2007 to date.
- * The Economist Conferences Advisory Board, Oct. 2008 – Sep. 2009, The Economist Intelligence Unit UK and USA.

Personal

Languages: English, Spanish, Russian, French (written)
 US citizen