

CURRICULUM VITAE OF ANDREA IACONO

PERSONAL INFORMATION

Firstname, Lastname **Andrea Iacono**
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Code repository, blog <https://github.com/andreaiacono> - <http://andreaiacono.blogspot.it/>



WORK EXPERIENCE

<i>Dates</i>	May 2013 - Today
<i>Name of the employer</i>	poinx.it
<i>Position held</i>	Software Engineer
<i>Main activities and responsibilities</i>	Managed transition from the old site (Cake PHP) to the newly designed architecture based on Play framework, with MongoDB as the persistence layer, views in Scala and Hazelcast used for managing session/cart information. Backend application in Vaadin. Full test suite (unit, integration and acceptance). Design and implementation of the full set of REST API based on OAuth for complete interoperability with the site. Team leader of a group of 4.
<i>Dates</i>	September 2012 - April 2013
<i>Name of the employer</i>	veespo.com
<i>Position held</i>	Software Engineer
<i>Main activities and responsibilities</i>	Development of the backend for veespo.com startup: the architecture relies on the open source Java server Jellyfish that distributes the workload among a network of server. Massive use of TCP/IP sockets, multithreading and synchronization techniques. User data persisted with Apache Cassandra. Designed and implemented a complete test suite for the framework.
<i>Dates</i>	April 2012 - July 2012
<i>Name of the employer</i>	Advansys s.r.l. for Allianz
<i>Position held</i>	Software Engineer
<i>Main activities and responsibilities</i>	Design and development of a communications gateway for vehicles' EDRs (Event Data Recorder) for an insurance company. The application is built on Jboss, is clustered on several nodes using Terracotta and uses Netty for the TCP/UDP communication. Team leader of a group of 2 people.
<i>Dates</i>	July 2011 - March 2012
<i>Name of the employer</i>	Nextre Engineering s.r.l.
<i>Position held</i>	Software Engineer
<i>Main activities and responsibilities</i>	Design and development of a site for travel online (flight and hotel booking) developed with Grails; data are persisted on Mysql and indexed/searched with Apache Solr. (Lucene) The flight/hotel info are retrieved from different providers (Travelfusion, Sabre and Venere) with a multithreaded approach to optimize performances and system resources.
<i>Dates</i>	January 2011 - June 2011
<i>Name of the employer</i>	Digital Magics s.p.a.
<i>Position held</i>	Software Engineer
<i>Main activities and responsibilities</i>	Design and development of a platform of TV participation. Development of an HTTP chat with comet technology (streaming technique) using Grizzly/Glassfish; the messages of the users/moderators are processed by HornetQ and persisted on Infinispan. Development of the Java/Swing application for the participation of users in a TV show; the application manages the audio/video streams of the users' webcams and mix them together properly to get on-air. Use of OpenGL for graphical effects. Team leader of a group of 2 people.

<i>Dates</i>	November 2009 - November 2010
<i>Name of the employer</i>	Loginet s.r.l.
<i>Position held</i>	Software Engineer
<i>Main activities and responsibilities</i>	Design and development of the automation platform for the loading and shipment of liquid products for refineries based on Java, Wicket, Spring and Hibernate. Full set of tests base on Junit, DbUnit, Selenium and FitNesse.
<i>Dates</i>	March 2005 - October 2009
<i>Name of the employer</i>	Humanbit s.r.l.
<i>Position held</i>	Partner / CTO / Software Architect / Software Engineer
<i>Main activities and responsibilities</i>	<ul style="list-style-type: none"> - Design and development of a Java swing application for rapid website development: webpages and modules management with WYSIWYG approach and automatic generation of Java and XSLT source code for creating JavaEE (JSP / XML / XSLT) websites. Development of a class loader for dynamically management of Java/JSP modules. - Technical management and systems management of the projects of the company: SherpaTV, Gay.tv, Nick Live Magazine, Pubbliclick, Il Giornale and others. Team leader of a group of 4 people.
<i>Dates</i>	December 2003 - December 2004
<i>Name of the employer</i>	URMET s.p.a.
<i>Position held</i>	Software Engineer
<i>Main activities and responsibilities</i>	Co-design and development of a network traffic analyzer for Italian Minister of the Interior; main features: monitoring of TCP/IP connections, use of Pcap libraries, use of protocols headers for building a logical information flow. Development of the Java web application to monitor real-time traffic.
<i>Dates</i>	November 1995 - November 2002
<i>Name of the employer</i>	Varios employers
<i>Position held</i>	Software Developer / Network Technician
<i>Main activities and responsibilities</i>	<ul style="list-style-type: none"> - Web applications in Java for Milan Municipality, Kataweb, RAI, Virgin Music, TIM and others - Development of different projects in Visual Basic, Visual C++ and Delphi for different customers (Pirelli, MaxMeyer, Prada, Il Sole24Ore, Bocconi, E-Tree and others) - Setup and configuration of Windows and Novell networks - PC assembly, installation and configuration of Windows Operating System

EDUCATION AND TRAINING

<i>Dates</i>	1991 – 1999	
<i>Name of organization</i>	University of Milan, Italy	
<i>Principal subjects / skills covered</i>	Thesis in Artificial Life: “The emerging of cooperative behaviors in simulations of predator-prey populations”. Final Mark: 100/110.	
<i>Title awarded</i>	Master's degree in Computer Science	
<i>Name of organization</i>	Oracle - Prometrics	
<i>Certification awarded</i>	Oracle Certified Professional, Java SE 6 Programmer - Score: 95% - January 2011	
<i>Name of organization</i>	MongoDB, Inc.	
<i>Certification awarded</i>	M102 - MongoDB for DBAs - September 2013	
<i>Name of organization</i>	Coursera	
<i>Courses successfully attended</i>	Machine Learning – Stanford University – Mar/Jun 2013 Web Intelligence and Big Data – Indian Institute of Technology – Mar/Jun 2013 Intro to Recommender Systems – University of Minnesota – Sep/Dec 2013 Data Analysis - Johns Hopkins University – Oct/Dec 2013	
<i>Name of organization</i>	Udacity	
<i>Courses successfully attended</i>	Intro to Hadoop and MapReduce – (Verified certification) - February 2014 Software Testing – Feb/May 2014	

PERSONAL SKILLS

Language skills

	SPEAKING	READING	WRITING
ITALIAN	First language		
ENGLISH	Full Proficiency	Full Proficiency	Full Proficiency
SPANISH	Minimum Proficiency	Minimum Proficiency	Minimum Proficiency
PORTUGUESE	Elementary Proficiency	Elementary Proficiency	Elementary Proficiency

Social skills

Capability to work with groups, even in critical contexts: tutor in work camps for NGO “ARCI” in the Occupied Territories of Palestine (summer 2005 and 2006).

Organization skills

- Leader of the **Java User Group (JUG) Milano** from 2011
 - Volunteer from 2004 and President from 2010 to 2013 of the NGO “Insieme nelle Terre di Mezzo” for the organization of cultural events related to social outcasting and immigration

Training skills

Educator in computer science for international development and cooperation projects in Mozambique in (2005, Portuguese), in Palestine (2006, English) and in saharai refugee camps in Algeria (2006, 2007 and 2008, Spanish).

Technical skills

- **System administration:**
 - Good knowledge of Linux systems (Debian-based), Bash scripting
 - Protocols: TCP/IP, HTTP, FTP, NNTP, SMTP, IMAP, POP3
- **Database / DataGrid:**
 - MongoDB, MySQL, Postgresql, Oracle, Hazelcast, Terracotta
- **Programming languages:**
 - Java, Groovy, Scala
 - Python, R, PHP, C, C++, Pascal, Object Pascal
- **IDEs:**
 - IntelliJ Idea, Eclipse, NetBeans
- **Web, frameworks, libraries and tools:**
 - Java EE (Servlet, JSP, EJB)
 - Play framework, Grails, Spring, Hibernate/JPA, Wicket
 - Tomcat, Jetty, JBoss, GlassFish, HornetQ, Netty
 - JSON, XML (DOM/SAX), XSLT, XSL-FO, XMLSchema, Xpath
 - REST, Web Services (SOAP, WSDL), Axis
 - HTML, XHTML, CSS, Javascript, jQuery, Ajax
 - JUnit, DbUnit, FitNesse, Selenium, Hudson, Jenkins
 - Maven, Ant
 - Git, Subversion, CVS
 - Swing, LWJGL (OpenGL), WxPython, PyOpenGL
 - Solr, Lucene
- **Programming techniques:**
 - OOP, design patterns
 - Client/Server (socket)
 - Agile development methodologies
 - MapReduce
- **Machine learning**
 - Neural networks
 - Genetic algorithms
 - Linear/Logistic regression
 - Clustering (K-means, Random Trees)
 - Recommender systems