

CURRICULUM VITÆ OF ANDREA IACONO

PERSONAL INFORMATION

Name **Andrea Iacono**
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Date of birth **25th May, 1973**
Nationality **Italian**
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WORK EXPERIENCE

<i>Dates</i>	April 2016 - July 2016
<i>Name of the employer</i>	OrientDB – www.orientdb.com
<i>Position held</i>	Software Engineer
<i>Main activities and responsibilities</i>	Development and maintenance of the distributed part of OrientDB ; design and development of the connectors to "big data" world (Apache Spark).
<i>Dates</i>	January 2015 - March 2016
<i>Name of the employer</i>	www.disbrain.com
<i>Position held</i>	Software Engineer
<i>Main activities and responsibilities</i>	Development of an high performance and scalable web application for project management. Due to a strict NDA, I cannot write anything more. Keywords: graphs, Akka, Play, elasticsearch, MySql .
<i>Dates</i>	May 2013 - November 2014
<i>Name of the employer</i>	www.poinx.it
<i>Position held</i>	Software Engineer
<i>Main activities and responsibilities</i>	Managed transition from the old site (Cake PHP) to a new architecture based on Play framework, with MongoDB as the persistence layer and Hazelcast used for managing session/cart information. Full test suite (unit, integration and acceptance). Design and implementation of the REST API based on OAuth for complete interoperability with the site (that has 2.6 millions subscribed users). Team leader of a group of 4.
<i>Dates</i>	September 2012 - April 2013
<i>Name of the employer</i>	www.veespo.com
<i>Position held</i>	Software Engineer
<i>Main activities and responsibilities</i>	Development of the back-end 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 , multi-threading 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>	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 online travel site (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 multi-threaded 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 , HornetQ and Infinispan . Development of the Java/Swing application for the participation of users in a TV show. Team leader of a group of 2.
<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/development of an automation platform for the loading and shipment of liquid products for refineries based on Java , Wicket , Spring , Hibernate , PostgreSQL , 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, Pubblickick, Il Giornale and others. Team leader of a group of 4 people.
<i>Dates</i>	November 1995 - December 2004
<i>Name of the employer</i>	Varios employers
<i>Position held</i>	Software Developer
<i>Main activities and responsibilities</i>	<ul style="list-style-type: none"> - Network traffic analyzer in C (with Pcap) for Italian Minister of Interior - 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

EDUCATION AND TRAINING

<i>Dates</i>	1991 – 1999
<i>Name of organization</i>	University of Milan, Italy
<i>Title awarded</i>	Master's degree in Computer Science
<i>Principal subjects / skills covered</i>	Thesis on Artificial Life based on neural networks and genetic algorithms: “The emerging of cooperative behaviors in simulations of predator-prey populations”. Grade: 100/110
<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 – July/September 2013
<i>Name of organization</i>	Coursera, Udacity, edX
<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 Mining Massive Datasets - Stanford University - Oct/Dec 2014 Advanced Data Structures in Java - University of California San Diego - Dec/Jan 2016 Functional Programming Principles in Scala - EPFL - Jul 2016 Functional Program Design in Scala - EPFL - Jul 2016 Parallel Programming - EPFL - Jul/Aug 2016 Intro to Hadoop and MapReduce - (Verified certification) - February 2014 Software Testing - Feb/May 2014 Real time analytics with Apache Storm - Dec 2014 Artificial Intelligence CS188.1x - Berkeley University - Feb/Apr 2015 Big data with Apache Spark CS100.1x - Berkeley University - May/Jun 2015



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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.

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

Computer science teacher for development aid 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
- **Database:**
 - MySQL, MongoDB, elasticsearch, OrientDB, PostgreSQL
- **Programming languages:**
 - Java, Scala, Groovy
 - Python, PHP, C
- **Web, frameworks, libraries and tools:**
 - Java EE (Servlet, JSP)
 - Akka, Play framework, Grails, Spring, Hibernate/JPA
 - Tomcat, Jetty, JBoss, GlassFish, Netty
 - REST, Web Services (SOAP, WSDL), Axis
 - HTML, XHTML, CSS, Javascript, jQuery, Ajax
 - JUnit, DbUnit, FitNesse, Selenium, Hudson, Jenkins
 - Maven, Ant, SBT
 - Git, Subversion, Mercurial, CVS
 - Swing, LWJGL (OpenGL), WxPython, PyOpenGL
 - Apache Hadoop, Apache Storm, Apache Spark
 - Solr, Lucene
 - Hazelcast
 - OpenCV
- **Programming models:**
 - OOP, design patterns
 - Actor model (Akka)
 - MapReduce (Hadoop)
 - Pregel (GraphX)
- **Machine learning:**
 - Neural networks
 - Genetic algorithms
 - Clustering
 - Linear / Logistic Regression
 - Computer Vision
- **Agile development methodologies**