



ANDREA IACONO

SOFTWARE ENGINEER

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WORK EXPERIENCE

April 2016 - July 2016	Software Engineer @ OrientDB	www.orientdb.com
Development and maintenance of the distributed part of OrientDB ; design and development of the connectors to "big data" world (Apache Spark and others).		

January 2015 - March 2016	Software Engineer @ Disbrain	www.disbrain.com
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 .		

May 2013 - November 2014	Software Engineer @ Poinx	www.poinx.it
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.		

September 2012 - April 2013	Software Engineer @ Veespo	www.veespo.com
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.		

April 2012 - July 2012	Software Engineer @ Advansys s.r.l. for Allianz	
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.		

July 2011 - March 2012	Software Engineer @ Nextre Engineering s.r.l.	
Design and development of an on-line 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.		

January 2011 - June 2011	Software Engineer @ Digital Magics s.p.a.	
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.		

November 2009 - November 2010	Software Engineer @ Loginet s.r.l.	
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 .		

March 2005 - October 2009	Partner / CTO / Software Engineer @ Humanbit s.r.l.
<ul style="list-style-type: none"> - Design and development of a Java Swing application for rapid website development: web pages 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 custom ClassLoader 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. 	

November 1995 - December 2004	Software Developer @ various employers
<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

1991 - 1999	University of Milan, Italy	Master's degree in Computer Science
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		



2011	Oracle - Prometrics
Oracle Certified Professional, Java SE 6 Programmer - Score: 95%	



2013	MongoDB, Inc.
M102 - MongoDB for DBAs	



Coursera		
Mar/Jun 2013	Machine Learning	Stanford University
Mar/Jun 2013	Web Intelligence and Big Data	Indian Institute of Technology
Sep/Dec 2013	Intro to Recommender Systems	University of Minnesota
Oct/Dec 2013	Data Analysis	Johns Hopkins University
Oct/Dec 2014	Mining Massive Datasets	Stanford University
Dec/Jan 2016	Advanced Data Structures in Java	University of California San Diego
Jul 2016	Functional Programming Principles in Scala	EPFL
Jul 2016	Functional Program Design in Scala	EPFL
Jul/Aug 2016	Parallel Programming	EPFL



Udacity	
Feb 2014	Intro to Hadoop and MapReduce - (Verified certification)
Feb/May 2014	Software Testing
Dec 2014	Real time analytics with Apache Storm



edX		
Feb/Apr 2015	Artificial Intelligence CS188.1x	Berkeley University
May/Jun 2015	Big data with Apache Spark CS100.1x	Berkeley University



PERSONAL SKILLS

Languages	
Italian	First Language
English	Full Proficiency
Spanish	Minimum Proficiency
Portuguese	Elementary Proficiency

Training Skills
Computer science teacher for development aid projects in Mozambique (2005, Portuguese), in Palestine (2006, English) and in Saharai refugee camps in Algeria (2006, 2007 and 2008, Spanish).

Social and Organization Skills
Capability to work with groups, even in critical contexts: tutor in work camps for NGO “ARCI” in the Occupied Territories of Palestine
Leader of the Java/JVM 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

Technical Skills	
System Administration	<ul style="list-style-type: none">- Good Knowledge of Linux Systems (Debian based)- Bash Scripting
Database	<ul style="list-style-type: none">- MySQL, PostgreSQL- MongoDB, Elasticsearch, OrientDB
Programming Languages	<ul style="list-style-type: none">- Java, Scala, Groovy- Python- PHP- C
Web, Frameworks, Tools, Libraries	<ul style="list-style-type: none">- Java EE (Servlet, JSP)- Akka- Play framework, Grails,- Spring, Hibernate/JPA- Tomcat, Jetty, JBoss, GlassFish, Netty- REST, Web Services (SOAP, WSDL), Axis- HTML, CSS, Javascript, jQuery, Ajax- JUnit, DbUnit, FitNesse, Selenium- Hudson, Jenkins- Maven, Ant, SBT- Git, Subversion, Mercurial, CVS- Swing, LWJGL (OpenGL), WxPython, PyOpenGL- Solr, Lucene- Hazelcast- OpenCV- Apache Hadoop, Apache Storm, Apache Spark
Programming Models	<ul style="list-style-type: none">- OOP, Design Patterns- Functional programming- Actor Model (Akka)- MapReduce (Hadoop)- Pregel (Spark GraphX)
Machine Learning	<ul style="list-style-type: none">- Neural Networks- Genetic Algorithms- Clustering- Linear / Logistic Regression