Curriculum Vitae of Andrea Iacono

Personal Information

First Name / Surname	**Andrea Iacono**
Address	**Via E. de Amicis 33 - 20123 Milano, Italy**
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E-mail	**andrea.iacono@gmail.com**
Date of birth	**25th May, 1973**
Nationality	**Italian**
Public repository	**https://github.com/andreaiacono**
Blog	**http://andreaiacono.blogspot.it/**

Work experience

• Dates	**May 2013 - Today**
• Name of the employer	Poinx.it
• Type of business or sector	E-commerce
• Occupation or position held	Analyst / Developer
• Main activities and responsabilities	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.

• Dates	**September 2012 - April 2013**
• Name of the employer	Veespo.com
• Type of business or sector	ICT
• Occupation or position held	Analyst / Developer
• Main activities and responsabilities	Development of Veespo.com back-end: 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.

• Dates	**April 2012 - July 2012**
• Name of the employer	Advansys s.r.l. for Allianz s.p.a.
• Type of business or sector	Insurance
• Occupation or position held	Analyst / Developer
• Main activities and responsabilities	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.

• Dates	**July 2011 - March 2012**
• Name of the employer	Nextre Engineering s.r.l.
• Type of business or sector	ICT
• Occupation or position held	Analyst / Developer
• Main activities and responsabilities	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 multi-threaded approach to optimize performances and system resources.

• Dates	**January 2011 - June 2011**
• Name of the employer	Digital Magics s.p.a.
• Type of business or sector	ICT and New Media
• Occupation or position held	Analyst / Developer
• Main activities and responsabilities	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.

• Dates	**November 2009 - November 2010**
• Name of the employer	Loginet s.r.l.
• Type of business or sector	Industrial automation
• Occupation or position held	Analyst / Developer
• Main activities and responsabilities	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.
• Dates	**March 2005 - October 2009**
• Name of the employer	Humanbit s.r.l.
• Type of business or sector	ICT
• Occupation or position held	Partner / CTO / Software Architect / Analyst / Developer
• Main activities and responsabilities	- 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.
• Dates	**December 2003 - December 2004**
• Name of the employer	URMET s.p.a.
• Type of business or sector	ICT
• Occupation or position held	Analyst / Developer
• Main activities and responsabilities	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.
• Dates	**November 1995 - November 2002**
• Name of the employer	Variuos employers
• Type of business or sector	ICT
• Occupation or position held	Developer / Network Technician
• Main activities and responsabilities	- 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

• Dates	1991 – 1999
• Name of organization	University of Milan, Italy
• Principal subjects / skills covered	Thesis in Artificial Life: "The emerging of cooperative behaviors in simulations of predator-prey populations". Final Mark: 100/110.
•Title or qualification awarded	**Master's degree in Computer Science**
• Name of organization	Oracle - Prometrics
• Certification awarded	**Oracle Certified Professional, Java SE 6 Programmer (SCJP)** - Score: 95% - January 2011
• Name of organization	MongoDB, Inc.
• Certification awarded	**M102 - MongoDB for DBAs** - September 2013
• Name of organization	Coursera
• Courses successfully attended	**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
• Name of organization	Udacity
• Certification awarded	**Intro to Hadoop and MapReduce** - February 2014

PERSONAL SKILLS			

Mother tongue	**Italian**		
	English	**Spanish**	**Portuguese**
Reading	Proficient (C2)	Independent (B2)	Basic (A2)
Writing	Proficient (C2)	Independent (B1)	Basic (A1)
Speaking	Proficient (C1)	Independent (B2)	Basic (A2)

Social skills

Capability to work in groups with people coming from different background and studies, 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), in Palestine (2006) and in saharaui refugee camps in Algeria (2006, 2007 and 2008).

Writing skills

Writer for IT magazines PC Professionale, PC Week and ZeroUno by Mondadori from 1997 to 1999, for LineaEDP and NetsTime by Agepe from 2000 to 2002 and for Business Software Solutions by Reportec from 2005 to 2006.

Technical skills

- **System Administration:**
  - Good knowledge of Linux systems
  - Shell scripting (bash)
  - DNS, DHCP, iptables (firewall), apache, nginx, postfix, cyrus
- **Database / DataGrid:**
  - MongoDB, MySql, Postgresql, Oracle, Hazelcast, Infinispan
- **Programming Languages:**
  - Java, Groovy, Scala
  - Python, PHP, R
  - C, C++, Pascal, Object Pascal
- **IDEs:**
  - IntelliJ Idea, Eclipse, NetBeans
  - Borland C++ Builder, Delphi/Kylix, Visual C++, Visual Basic
- **Web, Frameworks, Servers, Libraries and Tools:**
  - Java EE (Servlet, JSP, EJB)
  - Play Framework, Grails, Spring, Hibernate/JPA, Wicket
  - Tomcat, Jetty, JBoss, GlassFish, HornetQ
  - JSON, XML (DOM/SAX), XSLT, XSL-FO, XMLSchema, Xpath, Axis
  - REST, Web Services (SOAP, WSDL)
  - HTML, XHTML, CSS, Javascript, jQuery, Ajax
  - JUnit, DbUnit, FitNesse, Cucumber, Selenium, Hudson, Jenkins
  - Maven, Ant
  - Git, Subversion, CVS
  - Swing, LWJGL (OpenGL), WxPython, PyOpenGL
  - Camel, Solr, Lucene
  - Hadoop
  - Netty, Terracotta
  - VisualVM, JProfiler, NetBeans profiler, JMeter
- **Protocols:**
  - TCP/IP
  - HTTP, FTP, NNTP, SMTP, IMAP, POP3
- **Programming Techniques:**
  - OOP, design patterns
  - MapReduce
  - Client/Server (socket)
  - Neural networks, Genetic algorithms
  - Agile development methodologies