ANDREA IACONO
SOFTWARE ENGINEER

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Date of birth   May 25th, 1973
Nationality   Italian
Repo   https://github.com/andreaiacono

WORK EXPERIENCE

May 2017 - Present	Software Engineer @ eBay	www.ebay.com
Development and maintenance of the communication platform of eBay Classified Groups in Java and Go: Kafka, Cassandra, elastic, Spring, APIs, Postfix, chatbot (Google DialogFlow).		

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 a 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. 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 servers. Massive use of TCP/IP sockets, multi-threading and synchronization techniques. 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, with Terracotta and Netty for the TCP/UDP communication. Team leader of a group of 2.

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 retrieved from different providers.

November 1995 - June 2011	Software Developer @ various employers

- Design and development of a platform of TV participation: HTTP chat and a Java Swing application for the participation in a TV show. Team leader.
- Design and development of a Swing application for rapid website development: web pages and modules management with WYSIWYG approach and automatic generation of Java and XSLT source code (JSP/XML/XSLT)
- Web applications in Java for Milan Municipality, Kataweb, RAI, Virgin Music,TIM, SherpaTV, Gay.tv, Nick Live, Magazine, Pubbliclick, Il Giornale and others. Team leader of a group of 4 people
- Network traffic analyzer in C for Italian Minister of Interior
- 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

Oracle	
Jan 2011	Oracle Certified Professional, Java SE 6 Programmer - Score: 95%
Jan/Feb 2018	Java Virtual Machine Troubleshooting

MongoDB	
2013	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
Apr 2017	Big Data Analysis with Scala and Spark	EPFL
Oct/Nov 2018	Practical Reinforcement Learning	Higher School of Economics

Udacity	
Feb 2014	Intro to Hadoop and MapReduce
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

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

Social and Organization Skills
Capability to work with groups, even in critical contexts: tutor for NGO "ARCI" in the Occupied Territories of Palestine
Leader of the Java/JVM User Group (JUG) Milano from 2011 to 2017
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 (Varying levels of knowledge/experience)	
Programming Languages	- Java, Kotlin, Scala - Python - Go
Database / Indexing	- MySql, PostgreSQL - MongoDB, Riak KV, Cassandra, OrientDB - Apache Lucene, elastic
Web	- Tomcat, Jetty - Play framework, Grails, Spring MVC - REST APIs design - Web Services (SOAP, WSDL), Axis
Frameworks	- Akka - Spring
Testing	- JUnit, DbUnit - Mockito - FitNesse, Selenium
Front end	- Basic level of HTML, CSS, Javascript, jQuery, Ajax
GUI / Graphics	- Swing, JavaFX - WxPython - LWJGL (OpenGL), PyOpenGL - OpenCV
Big Data / Machine Learning	- Apache Hadoop, Apache Spark, Spark GraphX - Apache Storm - Apache Kafka - Neural Networks - Genetic Algorithms - Clustering, Linear / Logistic Regression - Reinforcement Learning
Infrastructure	- Jenkins, Hudson - Terraform, Nomad, Consul, Vault - Salt
System Administration	- Linux Systems (Debian based) - Bash Scripting
VCS / Build	- Git, Mercurial, Subversion, CVS - Maven, Ant, SBT