

# Diego Amicabile

## Data, Machine Learning and Full Stack Engineer

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**📍** Berlin



Experienced Full-Stack Engineer focusing on Machine Learning and Natural Language Processing.  
Over 15 years' experience designing, developing and deploying IT applications.  
High competence in understanding customers' needs and requirements.  
Successfully as a Software Developer and IT Project Manager in Italy, Germany and Poland.

## Skills <sup>1</sup>

Programming Languages :	<b>Java 8, Python 3, Pascal</b> , Bash/Shell scripting, Javascript, C, PL/SQL, HTML/CSS, C++
Data Science/Machine Learning :	<b>Numpy, Pandas, Scikit-learn</b> , Matplotlib, Scipy, Tensorflow, Keras
Natural Language Processing :	<b>Gensim, Spacy, NLTK, Rasa</b> , Textacy
Java Frameworks :	<b>Swing, Struts, Webwork, Spring MVC, Freemarker</b> , JAX-RS, Spring, Dropwizard, Spring Boot, Hibernate, EJB, Wicket, JSF, DWR, Junit, TestNG, Jasperreports, JAXP
Python Frameworks :	<b>Requests, Flask, Jinja2, Google App Engine, Scrappy, BeautifulSoup</b> , Jupyter
Javascript Frameworks :	<b>JQuery, React, Node.js</b> , Angular.js, D3.js, Express
Databases :	<b>Oracle Database, MySQL, MongoDB</b> , Redis, PostgreSQL, Sybase
IDEs :	<b>IntelliJ Idea, Eclipse, Pycharm, Webstorm</b> , Vim
Development Tools :	<b>Anaconda, Git, Gitlab</b> , Maven, SVN, Mercurial, Ant, Pip
Application Servers :	<b>Tomcat, Websphere Application Server</b> , JBoss, Oracle Weblogic
Operating systems :	<b>Linux Ubuntu, Windows 7, Mac OS</b> , Linux Mint, Windows 8
Project Management :	<b>PMP, Scrum</b> , Kanban
Deployment :	<b>AWS, Docker, Nginx</b> , Terraform, Ansible, Apache Web Server
Other :	<b>UML, REST/JSON</b> , SOAP/XML, HTTP, Hudson, Jenkins

## Work Experience

Now March 2018	<b>Lead Software Developer, Infinitec in Finleap, Berlin (Germany)</b> Managing the Development of a live-chat software and a chatbot for a financial services provider : <ul style="list-style-type: none"><li>➢ Realization of a Proof of Concept for a machine-learning based chatbot</li><li>➢ Definition of an architecture for a rule-based chatbot</li><li>➢ Creation of a NLP pipeline for processing conversations</li><li>➢ Development of user interface and endpoints to manage rules</li><li>➢ Release and Feature Development management</li></ul> <div><div>Microservices</div><div>Docker</div><div>AWS</div><div>Gitlab</div><div>Python</div><div>Spacy</div><div>Rasa-NLU</div><div>Java</div><div>Spring Boot</div><div>Dropwizard</div><div>Javascript</div><div>Node.js</div><div>React</div><div>MongoDB</div><div>Redis</div></div>
November 2017 August 2017	<b>Data Scientist, Data Science Retreat, Berlin (Germany)</b> Studied and practiced Machine Learning, Data Engineering and Data Science skills, using Python : <ul style="list-style-type: none"><li>➢ Practised Data Analysis with Numpy, Pandas</li><li>➢ Practised Machine Learning with Scipy, Scikit-learn</li><li>➢ Practised Deep Neural Networks with Tensorflow, Keras</li><li>➢ Practised Data Pipelines and streaming with Spark, Kafka</li><li>➢ Practised Data Visualization with Matplotlib, D3.js</li><li>➢ Practised Natural Language Processing techniques with Nltk, Spacy, Gensim, Textacy</li><li>➢ Practised deployment with Docker, AWS, Ubuntu</li><li>➢ As a portfolio project, I created a web portal aggregating IT articles from different sources relating the same story : <a href="http://www.techcontroversy.com">www.techcontroversy.com</a></li></ul> <div><div>Python</div><div>Gensim</div><div>Pandas</div><div>Spacy</div><div>Scikit-learn</div><div>MySQL</div><div>Flask</div><div>Jinja2</div><div>AWS</div></div>

1. Advanced skills in bold

July 2017	<b>IT Project Manager, Comarch SA, Cracow (Poland)</b>
July 2013	<p>Managed the integration of a Personal Financial Management software into the portal of several banks, fulfilling among other the following tasks :</p> <ul style="list-style-type: none"> <li>› Deployment, integration and customization of the software</li> <li>› Configuration and integration of the categorization engine</li> <li>› Management of the development of features</li> <li>› Management of the development of APIs</li> <li>› Deployment of APIs interfacing to the banks' applications</li> <li>› Requirements analysis and definition</li> </ul> <div> Java J2EE Spring Hibernate Websphere Freemarker Javascript Angular.js Python REST/JSON </div>
June 2013	<b>Senior Developer, Pentasys AG, München (Germany)</b>
January 2010	<p>Developed applications based on Java, J2EE technologies and Javascript :</p> <ul style="list-style-type: none"> <li>› Developed several mobile web applications in the mobile portal of a mobile network operator</li> <li>› Enhanced and refactorized an existing application used by an automotive company for the management of the configuration of trucks</li> <li>› Enhanced the shop and the contract management components of the web portal of a mobile network operator</li> </ul> <div> Java Spring Wicket EJB Struts Jboss Tomcat Maven Javascript jQuery Node.js JAX-RS JAXP </div>
December 2009	<b>Senior Developer, Saxonia Systems AG, München (Germany)</b>
October 2005	<p>Developed and enhanced several modules of an ERP application for drugstores</p> <ul style="list-style-type: none"> <li>› Developed the Invoices Module</li> <li>› Developed the Price Marking Module</li> <li>› Developed the Optimization Rollut Module</li> <li>› Enhanced the Reporting Module</li> <li>› Enhanced the Procurement Module</li> <li>› Enhanced the Update Manager Module</li> </ul> <div> Java J2EE EJB Swing JBoss Spring Sybase Ant </div>
September 2005	<b>Junior Developer, Arvato Systems Technologies, München (Germany)</b>
April 2000	<p>Developed and deployed several web applications in the intranet of a consulting company.</p> <div> Java J2EE Oracle DB JDBC Struts Oracle Application Server Javascript </div>
March 2000	<b>Junior Developer, Icon srl, Verona (Italy)</b>
June 1999	<p>Enhanced an applet used for the inventorization of devices of a mobile network operator.</p> <div> Java J2EE Oracle JDBC Swing </div>

## Languages

Italian	●	●	●	●	●
English	●	●	●	●	●
German	●	●	●	●	●
Polish	●	●	●	●	○
French	●	●	●	○	○
Russian	●	●	●	○	○
Spanish	●	●	○	○	○

## Personal projects

- ›  [www.techcontroversy.com](http://www.techcontroversy.com)  
Aggregates IT articles relating the same story.
- ›  [www.chessella.com](http://www.chessella.com)  
To browse and share commented chess games.
- ›  [www.faqportal.de](http://www.faqportal.de)  
Search over a database of FAQ.
- ›  [www.amicabile.com/javascript/](http://www.amicabile.com/javascript/)  
Contains sample Javascript applications.

## Education

<b>Master degree in Computer Engineering</b>	1993-1998	Università degli studi di Pavia (Italy)
	1991-1993	Università degli studi di Modena (Italy)

## Courses and Certificates

2017	Data Science Retreat in Berlin
2012-2017	Certified Scrum Master, PMP Academy Course, Certified Associate in Project Management (CAPM)
2004-2007	Oracle Certified Programmer, Java Developer, Component Developer, Web Application Developer, Enterprise Architect