Diego Amicabile

Data, Machine Learning and Full Stack Engineer

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□ www.amicabile.com □ www.techcontroversy.com □ www.chessella.com

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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 ¹

Programming Languages: Java 8, Python 3, Pascal, Bash/Shell scripting, Javascript, C, PL/SQL, HTML/CSS, C++

Data Science/Machine Learning: Numpy, Pandas, Scikit-learn, Matplotlib, Scipy, Tensorflow, Keras

Natural Language Processing: Gensim, Spacy, NLTK, Rasa, Textacy

Java Frameworks: Swing, Struts, Webwork, Spring MVC, Freemarker, JAX-RS, Spring, Dropwizard, Spring Boot,

Hibernate, EJB, Wicket, JSF, DWR, Junit, TestNG, Jasperreports, JAXP

Python Frameworks: Requests, Flask, Jinja2, Google App Engine, Scrapy, Beautifulsoup, Jupyter

Javascript Frameworks: JQuery, **React**, **Node.js**, Angular.js, D3.js, Express

Databases: Oracle Database, MySQL, MongoDB, Redis, PostgresSQL, Sybase

IDEs: IntelliJ Idea, Eclipse, Pycharm, Webstorm, Vim

Development Tools: Anaconda, Git, Gitlab, Maven, SVN, Mercurial, Ant, Pip

Application Servers: Tomcat, Websphere Application Server, JBoss, Oracle Weblogic Operating systems: Linux Ubuntu, Windows 7, Mac OS, Linux Mint, Windows 8

Project Management: PMP, **Scrum**, Kanban

Deployment: AWS, Docker, Nginx, Terraform, Ansible, Apache Web Server

Other: UML, REST/JSON, SOAP/XML, HTTP, Hudson, Jenkins



Now

Machine Learning Engineer, Hellofresh, Berlin (Germany)

October 2018

Brought to production, enhanced and maintained machine learning models, predicting:

- > the probability of active customers cancelling their subscription within a certain amount of days
- > the probability of customers reactivating their subscriptions, if targeted by a campaign

Python AWS Numpy Pandas Scikit-learn Docker Airflow Hadoop Impala

September 2018

Lead Software Developer, Infinitec in Finleap, Berlin (Germany)

March 2018

Managed the Development of a live-chat software and a chatbot for a financial platform:

- > Realization of a Proof of Concept for a machine-learning based chatbot
- > Definition of an architecture for a rule-based chatbot
- > Creation of a NLP pipeline for processing conversations
- > Development of user interface and endpoints to manage rules
- > Developed the Auditing Layer of the Platform

Microservices Docker AWS Gitlab Python Spacy Rasa-NLU Java 8 Spring Boot Dropwizard Javascript

Node.js React MongoDB Redis

November 2017 August 2017

Data Scientist, Data Science Retreat, Berlin (Germany)

Studied and practiced Machine Learning, Data Engineering and Data Science skills, using Python:

- > Practised Data Analysis with Numpy, Pandas
- > Practised Machine Learning with Scipy, Scikit-learn
- > Practised Deep Neural Networks with Tensorflow, Keras
- > Practised Data Pipelines and streaming with Spark, Kafka
- > Practised Data Visualization with Matplotlib, D3.js
- > Practised Natural Language Processing techniques with Nltk, Spacy, Gensim, Textacy
- > Practised deployment with Docker, AWS, Ubuntu
- > As a portfolio project, I created a web portal aggregating IT articles from different sources relating the same story: www.techcontroversy.com

Python Gensim Pandas Spacy Scikit-learn MySql Flask Jinja2 AWS

July 2017 July 2013

IT Project Manager, Comarch SA, Cracow (Poland)

Managed the integration of a Personal Financial Management software into the portal of several banks, fulfilling among other the following tasks:

- > Deployment, integration and customization of the software
- > Configuration and integration of the categorization engine
- > Management of the development of features
- > Management of the development of APIs
- > Deployment of APIs interfacing to the banks' applications
- > Requirements analysis and definition

 Java
 J2EE
 Spring
 Hibernate
 Websphere
 Freemarker
 Javascript
 Angular.js
 Python
 REST/JSON

June 2013 January 2010

Senior Developer, Pentasys AG, München (Germany)

Developed applications based on Java, J2EE technologies and Javascript:

- > Developed several mobile web applications in the mobile portal of a mobile network operator
- > Enhanced and refactorized an existing application used by an automotive company for the management of the configuration of trucks
- > Enhanced the shop and the contract management components of the web portal of a mobile network operator

[Java] (Spring) (Wicket) [EJB] (Struts) [Jboss] (Tomcat) [Maven] [Javascript] [JQuery] (Node.js) [JAX-RS] [JAXP]

December 2009 October 2005

Senior Developer, Saxonia Systems AG, München (Germany)

05 Developed and enhanced several modules of an ERP application for drugstores

- > Developed the Invoices Module
- > Developed the Price Marking Module
- > Developed the Optimization Rollut Module
- > Enhanced the Reporting Module
- > Enhanced the Procurement Module
- > Enhanced the Update Manager Module

Java J2EE EJB Swing JBoss Spring Sybase Ant

September 2005

Junior Developer, Arvato Systems Technologies, München (Germany)

April 2000

Developed and deployed several web applications in the intranet of a consulting company.

Java J2EE Oracle DB JDBC Struts Oracle Application Server Javascript

March 2000

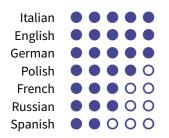
Junior Developer, Icon srl, Verona (Italy)

June 1999 Enh

Enhanced an applet used for the inventorization of devices of a mobile network operator.

Java J2EE Oracle JDBC Swing

Languages



+ Personal projects

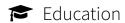
> www.techcontroversy.com Aggregates IT articles relating the same story.

> www.chessella.com

To browse and share commented chess games.

- > www.faqportal.de Search over a database of FAQ.
- > www.amicabile.com/javascript/

Contains sample Javascript applications.



Master degree in Computer Engineering

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, Enter-

prise Architect