# Diego Amicabile

## Machine Learning and Backend Engineer

- □ www.amicabile.com □ www.techcontroversy.com □ www.chessella.com
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- **♀** Berlin



Experienced Software Engineer focusing on Machine Learning and Backend. Over 15 years' experience designing, developing and deploying IT applications.

## **■** Skills <sup>1</sup>

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

Databases: Oracle, MySQL, Impala, MongoDB, InfluxDB, Redis, PostgresSQL, Sybase

AWS: EC2, RDS, S3, Athena, Awscli, ECS, Cloudwatch, Kinesis

Development Tools : Anaconda, Git, Github, Gitlab, Maven, SVN, Mercurial, Ant, Pip Operating systems : Linux Ubuntu, Windows 10, Mac OS, Linux Mint, Windows 7/8

Monitoring : Graylog, Prometheus, Grafana, InfluxDB
Other : Docker, Nginx, Terraform, Ansible



#### Now

#### Machine Learning Engineer, Hellofresh, Berlin (Germany)

#### October 2018

Made production-ready, deployed, enhanced and maintained 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 March 2018

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

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 and Visualization with Numpy, Pandas, Matplotlib, D3.js
- > Practised Machine Learning and Neural Network with Scipy, Scikit-learn, Tensorflow, Keras
- > Practised Data Pipelines and streaming with Spark, Kafka
- > Practised Natural Language Processing techniques with Nltk, Spacy, Gensim, Textacy
- > Practised deployment with Docker, AWS, Ubuntu
- > As a portfolio project, 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

### IT Project Manager, Comarch SA, Cracow (Poland)

July 2013 Managed the integration of a Personal Financial Management software into the portal of several banks, fulfilling among other the following tasks:

- > Requirements analysis and definition
- > Deployment, integration and customization of the standard software and APIs
- > Configuration and integration of the categorization engine
- > Management of the development of features and APIs

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 mobile web applications in the mobile portal of a mobile network operator
- > Maintained and enhanced extended an application for the management of the configuration of trucks
- > Maintained and enhanced several modules in 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

### Senior Developer, Saxonia Systems AG, München (Germany)

October 2005

Developed and enhanced several modules of an ERP application for drugstores

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 J J2EE Oracle DB JDBC Struts Oracle Application Server Javascript

## March 2000

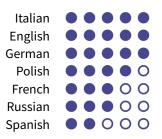
### Junior Developer, Icon srl, Verona (Italy)

June 1999

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

Java J2EE Oracle JDBC Swing

# Languages

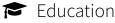


## + Personal projects

- > 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 FAO.
- > www.europoplyrics.com
  Pop Music videos in European language with subtitles



#### 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, Enterprise Architect