

# Diego Amicabile

## Machine Learning and Backend Engineer

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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, PostgreSQL, 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

## Work Experience

|  |   |
|--|---|
| <b>Now</b><br><b>October 2018</b>          | <b>Machine Learning Engineer, Hellofresh, Berlin (Germany)</b><br>Made production-ready, deployed, enhanced and maintained models predicting : <ul style="list-style-type: none"><li>› the probability of active customers cancelling their subscription within a certain amount of days</li><li>› the probability of customers reactivating their subscriptions, if targeted by a campaign</li></ul> <div><div>Python</div><div>AWS</div><div>Numpy</div><div>Pandas</div><div>Scikit-learn</div><div>Docker</div><div>Airflow</div><div>Hadoop</div><div>Impala</div></div>   |
| <b>September 2018</b><br><b>March 2018</b> | <b>Lead Software Developer, Infinitec in Finleap, Berlin (Germany)</b><br>Managed the Development of a live-chat software and a chatbot for a financial platform : <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>› Developed the Auditing Layer of the Platform</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 8</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>  |
| <b>November 2017</b><br><b>August 2017</b> | <b>Data Scientist, Data Science Retreat, Berlin (Germany)</b><br>Studied and practiced Machine Learning, Data Engineering and Data Science skills, using Python : <ul style="list-style-type: none"><li>› Practised Data Analysis and Visualization with Numpy, Pandas, Matplotlib, D3.js</li><li>› Practised Machine Learning and Neural Network with Scipy, Scikit-learn, Tensorflow, Keras</li><li>› Practised Data Pipelines and streaming with Spark, Kafka</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, 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      | IT Project Manager, Comarch SA, Cracow (Poland)   |
| 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>› Requirements analysis and definition</li> <li>› Deployment, integration and customization of the standard software and APIs</li> <li>› Configuration and integration of the categorization engine</li> <li>› Management of the development of features and APIs</li> </ul> <div> Java J2EE Spring Hibernate Websphere Freemarker Javascript Angular.js Python REST/JSON </div> |
| June 2013      | Senior Developer, Pentasys AG, München (Germany)  |
| January 2010   | <p>Developed applications based on Java, J2EE technologies and Javascript :</p> <ul style="list-style-type: none"> <li>› Developed mobile web applications in the mobile portal of a mobile network operator</li> <li>› Maintained and enhanced extended an application for the management of the configuration of trucks</li> <li>› Maintained and enhanced several modules in 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  | Senior Developer, Saxonia Systems AG, München (Germany)   |
| October 2005   | <p>Developed and enhanced several modules of an ERP application for drugstores</p> <div> Java J2EE EJB Swing JBoss Spring Sybase Ant </div>   |
| September 2005 | Junior Developer, Arvato Systems Technologies, München (Germany)  |
| 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     | Junior Developer, Icon srl, Verona (Italy)  |
| 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.europolyrics.com](http://www.europolyrics.com)  
Pop Music videos in European language with subtitles

## Education

|                                       |           |  |
|---------------------------------------|-----------|--|
| 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 |