Valerio Lanziani

Curriculum Vitae

Via della Torre, 11
Bassano in Teverina, VT 01030
✆ (+39) 347 112 8343
✉ valerio.lanziani@gmail.com

Summary

I achieved my Master's Degree in computer engineering in 2015 and lately I've been working as a software engineer at Translated, a translation company located in Rome.

I'm very curious about new technologies and trends and always open to learn. I like to pay a lot of attention to details and to take on new challenges.

Experience

2015–Present **Software Engineer**, TRANSLATED, Rome.

Following the work done in my master thesis, I was responsible of the management and coexistence of the company's RDBMS and new graph database. With this work I acquired a fairly good knowledge on graph databases, like OrientDB and Neo4j. I successfully developed methods of import and export of large, unorganized sets of data. I also implemented graph traversal functions aimed to be very fast, while maximizing the number of results obtainable with the available data. All of this improved the effectiveness of the company's main product: MateCAT. The most used languages were Java and PHP.

Academic Experience

○ **Information Retrieval**.

This project consisted in the development of a search engine with a large number of html pages. I created a simple web interface to search and retrieve large sets of previously indicized pages. For this work I used the Apache Lucene framework. This project gave me a good knowledge about search engines and how do they work.

○ **Big Data**.

This work required the processing of large amounts of data using the popular MapReduce programming model. In this project I learned to use the Apache Hadoop framework, Pig, Hive and the AWS platform. It taught me how much optimization and correct sequencing is crucial when managing huge sets of data.

Education

2015 **Master's Degree in Computer Engineering**, *Roma Tre University*, Rome.

Graph-oriented extension on the Translation Memories' model in the translation industry

The thesis covers the work done to create a graph model that could improve the well enstablished Translation Memory model, with the goal of incrementing the number of results obtainable with the same amount of data. It also explains the efforts made to build a graph database on top of said model containing billions of elements.

2012 **Bachelor's Degree in Computer Engineering**, *Roma Tre University*, Rome.

Visualization system of urban public transportation on maps

Skills (sorted by experience)

OS	Windows, Linux, OSX
Languages	Java, PHP, Javascript, Python
Frameworks	Apache ActiveMQ, Apache Lucene, Apache Hadoop
Databases	OrientDB, Neo4j, MySQL, Redis

Languages

Italian	**Mothertongue**
English	**Professional working proficiency**