

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.

I was responsible on the management of the company's main databases, overseeing both internal RDBMS and graph database data flow, load and structure. I also implemented methods for fast import and export of data in various formats in order to add more functionalities in MateCAT, Translated's main product. The most utilized languages were Java and PHP.

Academic Experience

- **Information Retrieval.**

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

- **Data Extraction.**

This project required the development of a data scraper in order to retrieve data from a set of domains of interest, and then compare it with some of the most popular data scrapers on the market. I learned the difficulties about the data extraction and the pros and cons of the various implementations.

- **Big Data.**

This work required the processing of large amounts of data using the popular MapReduce programming model. In this project I learned to utilize 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 to the Translation Memories' model in the translation industry

The thesis covers the work done to create a graph model that could improve the well established 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

This thesis explains the methods I used to query the main website of Rome's public transportation in order to create, via Google Maps technology, an interactive map showing the various routes of buses across the city.

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 **Intermediate**