Antonio Ercole De Luca

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Data Engineer and Software Developer with experience on Python and Java from 2013.

Mainly focused on all aspects of data management such as Retrieval, Storage, Scaling, Analysis and Mining. Usual data flow is Web Scraping, Relational Database, Cloud infrastructure, REST interface or Jupiter notebook.

Always fascinated by the potential given intersecting data coming from the Web and Data Mining techniques such as Data Clustering, Graph Analysis, Information Retrieval and Machine Learning.

Github Projects:

linkedin: Scraping software aimed to collect info from linkedin users. It uses scrapy, docker, Selenium Webdriver and Python3.

Some Actual Skills:

Python3, Java, Groovy, C, Bash;

Git, PyCharm, Gradle;

docker, docker-compose, Amazon AWS, heroku, Ubuntu Server;

Django, DRF, Scrapy, Selenium Webdriver;

postgreSQL, NEO4J, elasticsearch, celery, redis;

CrowdFlower; BPMN, Petri Nets; TDD;

Working Experience:

2019 <u>ErnieApp</u>

Dublin, Ireland

Remote

Backend Test Developer

python3, docker, django, celery, postgres, on Heroku.

2018 XPLOD Social

Los Angeles, California

Remote

Software Architect

Design of an Analytics Platform to show insights on data gathered from Instagram; python3, docker, django, celery, redis, Selenium, Instapy, Laravel, Mysgl, on DigitalOcean.

2018 Trademark Pro

Canada

Remote

Data Scientist

Image similarity search engine (MVP); python3, docker, flask, keras, tensorflow, scipy, numpy, annoy, postgres, on EC2 and S3.

2018 <u>Kiwicampus.com</u>

Berkeley, California

On site

Backend Software Developer

In charge to build the Integration platform with <u>Doordash Inc.</u> django, postgres, celery, redis, postgres, on Heroku.

2018 Decyde.io

San Francisco, California

Remote

Python Software Developer

python, scrapy, scrapinghub.com, google-custom-search, selenium.

2017 Einhorn Manufaktur

Berlin, Germany

Remote

Backend Software Developer

Backend REST APIs Developer. Python3, Django, Postgres, TDD.

2016 Legalkite Ltd

Zurich, Switzerland

Remote

Backend Software Developer

REST APIs, Data storage and Cloud infrastructure.

Python3, Django, Amazon AWS, ElasticSearch, Agile, TDD, Jira.

2015 SpazioDati s.r.l.

Pisa, Italy On site

Internship/Thesis

Supervisors: Prof. Paolo Ferragina and Ugo Scaiella

Development of an ETL workflow which involved CrowdFlower (now <u>Figure Eight</u>). Particular focus was given to cost efficiency by leveraging an <u>Active Learning</u> technique.

The output dataset was used to train a logistic regression model that replaced one of the steps of SpazioDati's proprietary Entity Linking system (SaaS): namely <u>Dandelion</u>

Tools used: Groovy, Intellij IDEA, WEKA, Gradle, Git and Ubuntu server.

2013 Synthema S.R.L.

Pisa, Italy On site

Software Engineer

Design and implementation of Java modules for Crawling and Linguistic Analysis (Romanian, Japanese, Chinese and German), as part of the CAPER european project.

Education:

2006 Bachelor Degree Laurea triennale

Computer Science Informatica University of Pisa, Italy

Outstanding final marks 110/110

Thesis: Document classification using lexical and semantic resources.

(Catalogazione di libri tramite risorse di semantica lessicale)

2009 Erasmus LLP Program

Facultad de Informática

<u>Universidad Politécnica de Valencia</u>, Spain

2011 Postgraduate Master's Degree Laurea Magistrale

Business Informatics

Informatica per l'Economia e l'Azienda

<u>University of Pisa</u>, Italy

Outstanding final marks 110/110

Thesis: Applying Active Learning on Entity Linking.

(Algoritmi di Active Learning applicati al problema dell'Entity Linking Pruning).

2019 Bachelor's Degree Laurea triennale

Statistics for Data Analysis Statistica per l'analisi dei dati

Università di Palermo, Italy

Publications:

Semantic Crawling: an Approach based on Named Entity Recognition

Proceedings of FOSINT-SI 2014

Antonio Ercole De Luca, Carlo Aliprandi, Giulia Di Pietro, Matteo Raffaelli, Tiziana Soru.

CAPER: Crawling and Analysing Facebook for Intelligence Purposes

Proceedings of ASONAM2014

Carlo Aliprandi, Antonio E. De Luca, Davide Gazzè, Mariantonietta N. La Polla, Giulia Di Pietro, Matteo Raffaelli, Andrea Marchetti, Maurizio Tesconi.

Languages:

English: Fluent Spanish: Fluent Italian: Native