

Antonio Ercole De Luca

GITHUB <https://github.com/eracle>

SKYPE [ercole.deluca](https://www.skype.com/people/ercole.deluca) •

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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 was 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.

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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;

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Working Experience:

2019

ErnieApp

Dublin, Ireland

Remote

Backend Test Developer

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

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- 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, Mysql, 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** **Kiwicampus.com**
Berkeley, California
On site
Backend Software Developer
- In charge to build the Integration platform with [Doordash Inc.](#)
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 [Figure Eight](#)). Particular focus was given to cost efficiency by leveraging an [Active Learning](#) 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 [Dandelion](#)
- 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.
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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
[Universidad Politécnica de Valencia](#), Spain

2011 **Postgraduate Master's Degree**
Laurea Magistrale
Business Informatics
Informatica per l'Economia e l'Azienda
[University of Pisa](#), 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

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