

# Antonio Ercole De Luca

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

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Senior Software Developer with 5 years of experience Python and Java.

Mainly focused on Web Technologies and Data Mining, with special interest on concepts such as Data Clustering, Graph Analysis, Information Retrieval, Machine Learning and Web Scraping.

## **Github Projects:**

**linkedin**: Scraping software aimed to visit as more pages of the linkedin users as possible for the purpose of gaining visibility. It uses Scrapy, docker, Selenium Webdriver and Python3.

## **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;

Anaconda, keras, tensorflow, scipy, scikit-learn, numpy, pandas, annoy, spacy.

## **Working Experience:**

**2019**

**ErnieApp**

**Dublin, Ireland**

**Remote**

Backend Software Developer

Code cleaning - Refactoring using Best Practices;  
python3, docker, django, celery, postgres, on Heroku.

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- 2018**      **XPLOD Social**  
**Los Angeles, California**  
**Remote**  
Software Architect
- Analytics Platform over Instagram Automation data (MVP);  
python3, docker, django, celery, redis,  
Selenium, Instapy, Laravel, Mysql, on DigitalOcean.
- 2018**      **Trademark Pro**  
**Canada**  
**Remote**  
Data Scientist - Software Architect - Devops
- 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**  
Business Process Automation - 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 and QA in a Team of five.  
Python3, Django, Postgres, TDD.
- 2016**      **Legalkite Ltd**  
**Zurich, Switzerland**  
**Remote**  
Backend Software Developer

REST APIs, Data storages 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](#), Doc. [Ugo Scaiella](#)

Development of an ETL process involving CrowdFlower and an Active Learning algorithm.

The outcome dataset was used to train a logistic regression model that replaced one of the steps of SpazioDati's proprietary Entity Linking system (SaaS): [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:

**Bachelor's Degree (Laurea triennale)**

**Computer Science**

University of Pisa, Italy

**Thesis:** Document classification using lexical and semantic resources.

(Catalogazione di libri tramite risorse di semantica lessicale)

**Erasmus LLP Program**

**Facultad de Informática**

Universidad Politécnica de Valencia, Spain

**Postgraduate Master's Degree (Laurea Magistrale),**

**Business Informatics (Informatica per l'Economia e l'Azienda)**

University of Pisa, Italy

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**Thesis:** Applying Active Learning on Entity Linking.  
([Algoritmi di Active Learning applicati al problema dell'Entity Linking Pruning](#)).

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**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.

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**Languages:**

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| English: | Fluent |
| Spanish: | Fluent |
| Italian: | Native |