Antonio Ercole De Luca

GITHUB https://github.com/eracle
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Data Architect and Senior Software Developer

Main professional experience with Python from 2016, previuos working experience with Java from 2013.

Focused on all aspects of data management such as Retrieval, Storage, Scaling, Analysis and Mining.
Experience on many projects involving:
Web Scraping, Relational Databases, Cloud infrastructure, REST API and 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 Contributions:

Dask: Dask is a flexible parallel computing library for analytics.

Github personal project:

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

Some Skills:

Python3, R, Java, Groovy, C, Bash;
Git, PyCharm, Gradle;
docker, docker-compose, Amazon AWS, heroku, Ubuntu Server;
Django, Django REST framework, Scrapy, Selenium Webdriver;
Pandas, dask, Jupyter;
postgreSQL, elasticsearch, celery, redis;
Scrum, Agile, TDD;
CrowdFlower, BPMN, Petri Nets, OpenStreetMap;

Working Experience:

2020   **Push**
Data Science

Data cleaning - GeoSpatial Data;

python3, pandas, dask, Jupyter-lab, OpenStreetMap.

2019   **ErnieApp**
Dublin, Ireland
Remote
Backend Test Developer

Code Refactoring, Increasing Testing Coverage metrics;

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

2018   **XPLOD Social**
Los Angeles, California
Remote
Software Architect

Design 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

             python3, scrapy, scrapinghub.com, google-custom-search,
             selenium.

2017   **Einhorn Manufaktur**
             Berlin, Germany
             Remote
             Backend Software Developer

             REST API Developer.

             Python3, Django, Postgres, TDD, Github.

2016   **Legalkite Ltd**
             Zurich, Switzerland
             Remote
             Backend Software Developer

             REST API, Data storage and Cloud infrastructure.

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

2015   **SpazioDati s.r.l.**
             Pisa, Italy
             Internship/Thesis

             Supervisors: Prof. Paolo Ferragina and Ugo Scaiella

             Development of an ETL workflow which involved CrowdFlower
             (rebranded now as Figure Eight).
             Particular focus was given to cost reduction by leveraging an
             Active Learning technique.

             The output dataset was used to train a logistic regression which
             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
Software Developer

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

Education:

2006   **Bachelor's 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
Classes: R Laboratory, Probability Calculus, Exploratory Statistics,
Statistical Inference, Multivariate Statistical Analysis.

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

Activities:

Co-Founder Python Meetup Palermo.

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