



















Antonio Ercole De Luca

Senior Software Engineer
Data Architect

SKILLS

- Python 
- SQL 
- Pandas 
- Django 
- Docker 
- Kubernetes 
- AWS 
- Google Cloud 
- Snowflake 
- Airflow 
- dbt 
- Prefect 
- Metaflow 
- Scrum 
- TDD 

LANGUAGES

- Italian 
- English 
- Spanish 

CONTACT



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• Personal web site:
<https://eracle.me>

PROFILE

I am a Senior Software Engineer, working as a consultant since 2016, having shifted over different roles such as Machine Learning Engineer, Data Architect, Data Scientist, DevOps, and Scrum Master.

I have worked on all aspects of data management such as retrieval, storage, cloud infrastructure scaling, data analysis, and mining; encompassing web scraping, design of relational databases, cloud deployment, RESTful API, and Jupiter Notebook.

In 2019 I took a couple of sabbatical years to get into the world of Statistics & Finance.

During my career, I also contributed to two scientific papers in the field of Web Scraping and Data Visualization.

WORK EXPERIENCE

World Food Program (2021)

Senior Software Engineer

With a team of 10+ Software Developers worked on the Humanitarian Booking Hub: a platform used by UN agencies employees to book accommodations, car rides, flights and clinic visits;

- used my Scrum experience to let the team achieve effective daily stand-ups;
- standardized and documented Test Driven Development with pytest config;
- periodical meetings to spot technical debts in past designs;
- laid the foundation of e2e testing covering Django models with Factory boy.

Consultant, Remote (2017 - 2019)

Data Architect

Worked with more than 10 international clients on Upwork.com receiving 5/5 stars as median feedback.

Some stories:

- Designed an image similarity search engine with near zero response time, indexing more than 40 000 imgs by using Approximate Nearest Neighbors data structure;
- Reduced client's cloud infrastructure costs by dockerizing a Django app and migrating from Digital Ocean to Google Cloud;
- Built a Django app with 83% testing coverage by using Test Driven Development.

Legalkite Ltd, Zurich (2016 - 2017)

Back-end Software Engineer

Design of several RESTful endpoints;
Improved 10x REST API response time by translating django ORM queries into raw SQL queries;

Solved data inconsistency bugs by:

- Refactoring postgres schema;
- Making Elasticsearch a read-replica;

Scaled 100x scraping module by porting it to scrapy and scrapinghub.

SpazioDati, Pisa, Italy (2015-2016)

Machine Learning Engineer

Design of a Human-in-the-loop Active Learning workflow using CrowdFlower API (now Appen).
Increased 2x F1-score in Logistic Regression model used for Named Entity Linking by using Uncertainty Sampling.

Synthema, Pisa, Italy (2014-2015)

Software Developer

Productionize Natural Language Processing steps:
Segmentation, Tokenization, POS, Stop Words, Dep.Parsing, NER;
(Romanian, Japanese, Chinese and German)
EU funded (5.6 Mln €) project: CAPER.

EDUCATION

Bachelors Degree Statistics & Data Science

(2019 - 2020)

Università di Palermo, Italy

Financial Mathematics, Finance Theory, Multivariate Analysis,
Inference, R Language, Probability.

Masters Degree Data Science and Business Informatics

(2011 - 2013)

University of Pisa, Italy

Thesis on Natural Language Processing:
Applying Active Learning on Entity Linking.

Bachelors Degree Computer Science

(2007 - 2010)

University of Pisa, Italy

Thesis on Natural Language Processing:
Document classification using lexical and semantic resources.