








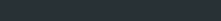

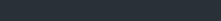
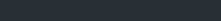







Antonio Ercole De Luca

Machine Learning &
Software Engineer

SKILLS

- Python 
- SQL 
- Pandas 
- Django 
- Docker 
- Selenium 
- AWS 
- Google Cloud 
- postgres 
- Airflow 
- optuna 
- prophet 
- Bash 
- Scrum 
- TDD 

LANGUAGES

- Italian 
- English 
- Spanish 

CONTACTS:

• E-mail:



eracle@posteo.eu

• 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

Molofinance

London, Remote
(2022)

Software Engineer

- Just joined a freshly launched project developed with Django and postgres;
- Extending Django admin;
- Review and document past design decisions;
- Bug triage and fixing;
- Add backward compatible changes to RESTful API.

World Food Program

United Nations, Remote
(2021)

Software Engineer

- In a team of 10+ Software Developers, I worked on the Humanitarian Booking Hub: a platform used by UN agencies employees to book accommodations, car rides, flights and clinic visits;
- I used my Scrum experience to let the team achieve effective daily stand-ups;
 - standardized and documented Test-Driven Development practices;
 - arranged periodical meetings to spot technical debts in past designs;
 - I laid the foundations for e2e testing by introducing 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, Remote
(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. 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

Università di Palermo, Italy

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

(2019 - 2020)

Masters Degree

Data Science and Business Informatics

University of Pisa, Italy

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

(2011 - 2013)

Bachelors Degree

Computer Science

University of Pisa, Italy

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

(2007 - 2010)