Antonio Ercole De Luca

GITHUB https://github.com/eracle
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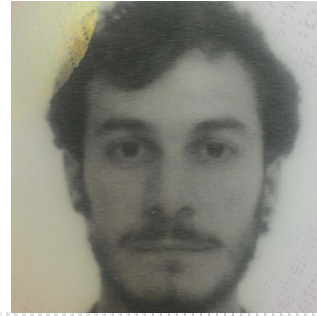
Software Developer from 2013, coming from the Java world, now Senior Python3 Software Developer.

Mainly focused on Web Technologies, Databases and Cloud Environments. I follow the entire data lifecycle: gathering, storage, retrievability and manteinance, with strong enphasis on software quality, Test Driven Development and Continuous integration.

During my career I also worked with Data Mining and Machine Learning, with special interest on concepts such as Data Clustering, Graph Analysis, Information Retrieval and Web Scraping.

Github Projects:

linkedin: Scraping software that collects users' data from the Linkedin platform. It uses Scrapy, docker, Selenium Webdriver and Python3.

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);
110/110 – outstanding final marks.

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;
Thesis: Applying Active Learning on Entity Linking.
(Algoritmi di Active Learning applicati al problema dell'Entity Linking Pruning);
110/110 – outstanding final marks.

Actual Skills:

Python3, Java, Groovy, C, Bash;
Git, PyCharm, Gradle;
docker, docker-compose, Ubuntu Server;
Amazon AWS, heroku, Google Cloud;
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:

2018   **Amz Analytics**
             Singapore
             Remote
             Software Architect - Devops

             Docker containerization from scratch and
             Migration from digital ocean to google cloud;

             python3, docker, docker-compose;
             django, celery, redis, postgres;
             Google: cloud SQL, Compute Engine, Storage.

2018   **Trademark Pro**
             Canada
             Remote
             Data Scientist - Software Architect - Devops

             Design and implementation from scratch of an
             Image similarity search engine (MVP);

             python3, docker, flask, keras, tensorflow,
             scipy, numpy, annoy, postgres, on AWS (ec2, 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, 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

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, Databases (SQL+ NoSQL) 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

Design of an ETL process using CrowdFlower and
leveraging Active Learning techniques.

Trainining and evaluation of a Machine Learning
Model (Logistic Regression) over the obtained dataset;
the model was used as a data processing step into the
SpazioDati's proprietary Entity Linking system (SaaS): Dandelion

Groovy, Intellij IDEA, WEKA, Gradle, Git and Ubuntu server.

2013 **Synthema S.R.L.**
Pisa, Italy
On site
Software Engineer

Java modules used for Crawling and Linguistic Analysis purposes
(Romanian, Japanese, Chinese and German);
Part of the CAPER european project.

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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