



Alessio Falai

SOFTWARE DEVELOPER · ARTIFICIAL INTELLIGENCE STUDENT

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Education

Alma Mater Studiorum - University of Bologna



M.S. IN ARTIFICIAL INTELLIGENCE · COMPUTER ENGINEERING

Grade -
Thesis -

Python SKLearn/PyTorch Prolog Scala Spark MiniZinc/Z3

Bologna, Italy

October 2019 - Now

Florentina Studiorum Universitas - University of Florence



B.S. IN COMPUTER SCIENCE

Grade 110 cum laude / 110
Thesis Refinement of a Python library to perform OCR on identity documents

C Java MySQL Python

Florence, Italy

October 2016 - October 2019

I.T.S. Tullio Buzzi



HIGH-SCHOOL DIPLOMA IN INFORMATION AND COMMUNICATIONS TECHNOLOGY

Grade 100 / 100
Thesis Implementation of a C++ holographic experience

C C++ Java PHP MySQL Javascript HTML CSS

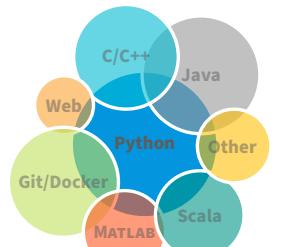
Prato, Italy

September 2011 - July 2016

Skills

TECHNICAL

- Programming** Python, Java, C, C++, Scala, MATLAB, Prolog, MiniZinc
Libraries Qt, OpenCV, Django, Flask, SciPy (NumPy, Pandas, ...), SciKits (scikit-learn, scikit-image, ...), PyTorch, Spark, Z3, OR-Tools
Tools Bash, Git, Docker, L^AT_EX, Jupyter
Web HTML, CSS, Javascript, jQuery, PHP, REST API, MySQL, Wordpress
Cloud AWS (Sagemaker, EC2, ECS, Athena, SES, Quicksight, ...), Azure (Cognitive Services)



INTERPERSONAL

- Languages** Italian, English
Capabilities Project Planning, Project Management, Teamwork, Leadership, Organization, Initiative, Curiosity, Problem Solving, Modeling
Hobbies Photography, Travelling, Food Culture, Cuisine



PREFERENCES

- Likings** Computer Vision, Machine Learning, Deep Learning, Natural Language Processing, Declarative/Constraint Programming
Dislikings Web Development (e.g. JS), .NET Framework (e.g. C#)

Experience

**Amazon**

DATA SCIENCE INTERN · APPLIED SCIENTIST I · INTERNSHIP

Virtual

February 2021 - Now

**Quid Informatica**

PYTHON DEVELOPER · PART TIME

Project

Refinement of a text classification model and implementation of specialized extraction algorithms to parse OCR results

Achievements

Trained a text classification model to categorize financial documents, using fastText

Python OpenCV Flask Tornado Unicorn SpaCy fastText Azure Cognitive Podman

Sesto Fiorentino, Florence, Italy

August 2020 - September 2020

**Quid Informatica**

PYTHON DEVELOPER · FREELANCE

Project

Development of 3 production-grade Python micro-services working in banking environments, to classify and extract text from identity documents

Achievements

Implemented NER (Named Entity Recognition) techniques to parse raw OCR results, using spaCy

Python OpenCV Flask Unicorn SpaCy Tesseract Google Vision ABBYY OCR.Space Azure Cognitive

**QI-Lab**

PYTHON DEVELOPER · FREELANCE

Project

Identity documents OCR library development

Achievements

Implemented edge detection and text detection techniques to improve OCR results, using OpenCV

Python OpenCV Django Tesseract Google Vision ABBYY Docker

Sesto Fiorentino, Florence, Italy

June 2019 - October 2019

**QI-Lab**

PYTHON DEVELOPER · INTERNSHIP

Project

Identity documents OCR library development

Achievements

Implemented a custom image binarization algorithm, using OpenCV

Python OpenCV Django Tesseract

Sesto Fiorentino, Florence, Italy

March 2019 - May 2019

**Continental**

PYTHON DEVELOPER · FREELANCE

Project

Manually operated visual inspection digitalization

Achievements

Development of a production-grade modular GUI working in industrial settings, using Qt

Python Qt

Fauglia, Pisa, Italy

January 2019 - September 2019

**EasyClaims**

PHP DEVELOPER · FREELANCE

Project

Insurance claims video verification interface

Achievements

Gained some real-world knowledge about developing production software, using agile kanban techniques

PHP MySQL

Virtual

January 2018 - March 2018

**Develer**

PYTHON DEVELOPER · INTERNSHIP

Project

Barcode handling GUI design and deployment

Achievements

Gained insights about company environments and software design principles

Python Qt

Campi Bisenzio, Florence, Italy

June 2015

Websites

tognonishop.com

Virtual

WEBSITE ADMINISTRATOR · FREELANCE

April 2020 - Now



Project Fashion (shoes) e-commerce website

Wordpress Woocommerce



studio54italy.it

WEBSITE ADMINISTRATOR · FREELANCE

Project Textile catalog website

Wordpress Woocommerce

Virtual

March 2020 - Now



loscoiattolofirenze.it

WEBSITE ADMINISTRATOR · FREELANCE

Project Fashion (clothes) e-commerce website

Wordpress Woocommerce

Virtual

March 2020 - Now



walterquiet.com

WEBSITE ADMINISTRATOR · FREELANCE

Project Photography presentation website

Wordpress Squarespace Woocommerce Leadpages Deadline Funnel Kajabi Kartra

Virtual

December 2018 - Now

Challenges

DOMESTIC

2015 **Finalist**, RoboCup Junior Italia

Malpensa Fiere, Italy

2015 **Finalist**, OIS - Olimpiadi di Informatica a Squadre (6th edition)

University of Bologna

Other info

ITALIAN JOB MARKET

Si autorizza il trattamento delle informazioni contenute nel curriculum in conformità alle disposizioni previste dal d.lgs. 196/2003.

Si dichiara altresì di essere consapevole che, in caso di dichiarazioni non veritieri, si è passibili di sanzioni penali ai sensi del DPR 445/00 oltre alla revoca dei benefici eventualmente percepiti.