



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/Keras 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 Buzzì

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

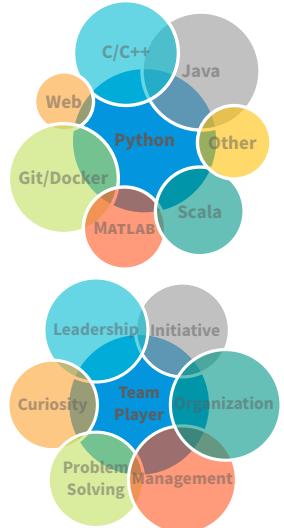
TECHNICAL

Programming Python, Java, C, C++, Scala, MATLAB, Prolog, MiniZinc

Libraries Qt, OpenCV, Django, Flask, SciPy (NumPy, Pandas, ...), SciKits (scikit-learn, scikit-image, ...), PyTorch, Keras, Spark, Z3

Tools Bash, Git, Docker, L^AT_EX, Jupyter

Web HTML, CSS, Javascript, jQuery, PHP, REST API, MySQL, Wordpress



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#)



Amazon

DATA SCIENCE INTERN · 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 Gunicorn 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 Gunicorn SpaCy Tesseract Google Vision ABBYY OCR.Space Azure Cognitive

Sesto Fiorentino, Florence, Italy

February 2020 - June 2020

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 · STAGE

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

Virtual

January 2018 - March 2018

Project

Insurance claims video verification interface

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

PHP MySQL

Campi Bisenzio, Florence, Italy

June 2015

Develer



PYTHON DEVELOPER · STAGE

Project

Barcode handling GUI design and deployment

Achievements Gained insights about company environments and software design principles

Python Qt

Websites



tognonishop.com

WEBSITE ADMINISTRATOR · FREELANCE

Virtual

April 2020 - Now

Project Fashion (shoes) e-commerce website

Wordpress Woocommerce



studio54italy.it

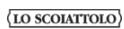
WEBSITE ADMINISTRATOR · FREELANCE

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.