

# Alessio Falai

SOFTWARE DEVELOPER · ARTIFICIAL INTELLIGENCE STUDENT

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#### Alma Mater Studiorum - University of Bologna

Bologna, Italy

October 2019 - Now



M.S. IN ARTIFICIAL INTELLIGENCE · COMPUTER ENGINEERING

Grade -

Thesis -

Python Prolog Scala Spark MiniZinc/Z3

Florentina Studiorum Universitas - University of Florence

Florence, Italy

October 2016 - October 2019

September 2011 - July 2016



B.S. IN COMPUTER SCIENCE

Thesis Refinement of a Python library to perform OCR on identity documents

C Java MySQL Python

Grade 110 cum laude / 110

I.T.S. Tullio Buzzi

Prato, Italy

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

### Skills 🏜

TECHNICAL

**Programming** Python, Java, C, C++, Scala, Matlab, Prolog, MiniZinc

**Libraries** Qt, OpenCV, Django, Flask, SciPy (NumPy, Pandas, ...), SciKits

(scikit-learn, scikit-image, ...), Spark, Z3

**Tools** Bash, Git, Docker, AT<sub>F</sub>X, Jupyter

Web HTML, CSS, Javascript, ¡Query, PHP, REST API, MySQL, Wordpress

# C/C++ Java Web Python Other Git/Docker Scala

#### INTERPERSONAL

Languages Italian, English

**Capabilities** Project planning, Project management, Teamwork, Leadership,

Organization, Initiative, Curiosity, Problem solving

**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#)



Quid Informatica S.p.A.

Sesto Fiorentino, Florence, Italy

PYTHON DEVELOPER · PART TIME

August 2020 - September 2020



Project

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

Development of 3 production-grade Python micro-services working in banking environments, to classify and

OCR results

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

Python OpenCV Flask Tornado Gunicorn SpaCy fastText Azure Cognitive Podman

Quid Informatica S.p.A.

Sesto Fiorentino, Florence, Italy

PYTHON DEVELOPER · FREELANCE

February 2020 - June 2020

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

QI-Lab S.r.l. Sesto Fiorentino, Florence, Italy

PYTHON DEVELOPER · FREELANCE

June 2020 - October 2019

June 2015

April 2020 - Now

March 2020 - Now

**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

QI-Lab S.r.l. Sesto Fiorentino, Florence, Italy

PYTHON DEVELOPER · STAGE March 2019 - May 2019

COLL AB

**Project** Identity documents OCR library development

Achievements Implemented a custom image binarization algorithm, using OpenCV

Python OpenCV Django Tesseract

Continental S.p.A. Fauglia, Pisa, Italy

PYTHON DEVELOPER · FREELANCE January 2019 - September 2019

**Continental** 

**Project** Manually operated visual inspection digitalization

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

Python Qt

EasyClaims.eu · Pro Claims S.r.l.

PHP Developer · Freelance January 2018 - March 2018

easy claims

**Project** Insurance claims video verification interface

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

PHP MySQL

Develer S.r.l. Campi Bisenzio, Florence, Italy



**Project** Barcode handling GUI design and deployment

Achievements Gained insights about company environments and software design principles

Python Qt



tognonishop.com

PYTHON DEVELOPER · STAGE

Project Fashion (shoes) e-commerce website

Wordpress Woocommerce

studio54italy.it

WEBSITE ADMINISTRATOR · FREELANCE

WEBSITE ADMINISTRATOR · FREELANCE

Project Textile catalog website

Wordpress Woocommerce

#### loscoiattolofirenze.it



WEBSITE ADMINISTRATOR · FREELANCE

March 2020 - Now



Project Fashion (clothes) e-commerce website

Wordpress Woocommerce

#### walterquiet.com



Website Administrator · Freelance

December 2018 - Now

**Project** Photography presentation website

Wordpress Squarespace Woocommerce Leadpages Deadline Funnel Kajabi Kartra

# **Challenges**

#### **DOMESTIC**

2015 **Finalist**, RoboCup Junior Italia

Malpensa Fiere, Italy University of Bologna

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

## Other info 1

#### **ITALIAN JOB MARKET**

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