Alessio **Falai**

Software Developer · Artificial Intelligence Student

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Education

Alma Mater Studiorum - University of Bologna

Bologna, Italy

M.S. in Artificial Intelligence · Computer Engineering

October 2019 - Now

Grade -
Thesis -

`Python` `Prolog` `Scala` `Spark` `MiniZinc/Z3`

Florentina Studiorum Universitas - University of Florence

Florence, Italy

B.S. in Computer Science

October 2016 - October 2019

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

`C` `Java` `MySQL` `Python`

I.T.S. Tullio Buzzi

Prato, Italy

High-school Diploma in Information and Communications Technology

September 2011 - July 2016

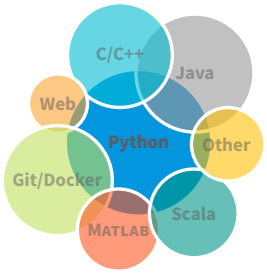
Grade 100 / 100
Thesis Implementation of a C++ holographic experience

`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, LaTeX, 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#)

Experience

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 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

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`

QI-Lab S.r.l.

Sesto Fiorentino, Florence, Italy

PYTHON DEVELOPER · FREELANCE

June 2020 - October 2019

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

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

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.

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PHP DEVELOPER · FREELANCE

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`

Develer S.r.l.

Campi Bisenzio, Florence, Italy

PYTHON DEVELOPER · STAGE

June 2015

Project Barcode handling GUI design and deployment

Achievements Gained insights about company environments and software design principles

`Python` `Qt`

Websites

tognonishop.com

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WEBSITE ADMINISTRATOR · FREELANCE

April 2020 - Now

Project Fashion (shoes) e-commerce website

`Wordpress` `Woocommerce`

studio54italy.it

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WEBSITE ADMINISTRATOR · FREELANCE

March 2020 - Now

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*

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 veritiere, si è passibili di sanzioni penali ai sensi del DPR 445/00 oltre alla revoca dei benefici eventualmente percepiti.