Alessio **Falai**

SOFTWARE DEVELOPER · ARTIFICIAL INTELLIGENCE STUDENT

✉ falai.alessio@gmail.com | 🏠 alessiofalai.it | ⦿ Wadaboa | in alessio-falai

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
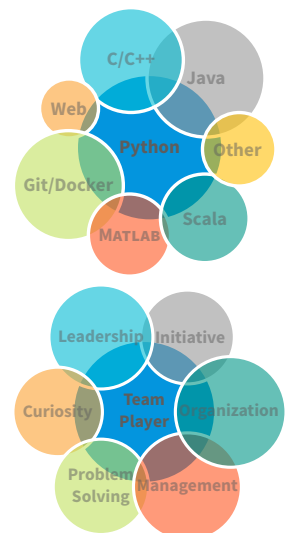
INTERPERSONAL

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.
PYTHON DEVELOPER · PART TIME

Sesto Fiorentino, Florence, Italy
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.
PYTHON DEVELOPER · FREELANCE

Sesto Fiorentino, Florence, Italy
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.
PYTHON DEVELOPER · FREELANCE

Sesto Fiorentino, Florence, Italy
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.
PYTHON DEVELOPER · STAGE

Sesto Fiorentino, Florence, Italy
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.
PYTHON DEVELOPER · FREELANCE

Fauglia, Pisa, Italy
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.
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.
PYTHON DEVELOPER · STAGE

Campi Bisenzio, Florence, Italy
June 2015

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

-
April 2020 - Now

Project Fashion (shoes) e-commerce website

`Wordpress  Woocommerce`

studio54italy.it
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.