



Alessio Falai

SOFTWARE DEVELOPER · ARTIFICIAL INTELLIGENCE STUDENT

[✉ falai.alessio@gmail.com](mailto:falai.alessio@gmail.com) | [🏡 alessiofalai.it](http://alessiofalai.it) | [⌚ Wadaboa](https://wadaboa.com/alessio-falai) | [🔗 alessio-falai](https://www.linkedin.com/in/alessio-falai/)

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



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	<i>Virtual</i> February 2021 - Now
	Quid Informatica PYTHON DEVELOPER · PART TIME <i>Project</i> Refinement of a text classification model and implementation of specialized extraction algorithms to parse OCR results <i>Achievements</i> 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 <i>Project</i> Development of 3 production-grade Python micro-services working in banking environments, to classify and extract text from identity documents <i>Achievements</i> 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	Sesto Fiorentino, Florence, Italy February 2020 - June 2020
	QI-Lab PYTHON DEVELOPER · FREELANCE <i>Project</i> Identity documents OCR library development <i>Achievements</i> 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 <i>Project</i> Identity documents OCR library development <i>Achievements</i> Implemented a custom image binarization algorithm, using OpenCV Python OpenCV Django Tesseract	Sesto Fiorentino, Florence, Italy March 2019 - May 2019
	Continental PYTHON DEVELOPER · FREELANCE <i>Project</i> Manually operated visual inspection digitalization <i>Achievements</i> 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 <i>Project</i> Insurance claims video verification interface <i>Achievements</i> Gained some real-world knowledge about developing production software, using agile kanban techniques PHP MySQL	<i>Virtual</i> January 2018 - March 2018
	Develer PYTHON DEVELOPER · INTERNSHIP <i>Project</i> Barcode handling GUI design and deployment <i>Achievements</i> Gained insights about company environments and software design principles Python Qt	Campi Bisenzio, Florence, Italy June 2015
Websites		
	tognonishop.com WEBSITE ADMINISTRATOR · FREELANCE <i>Project</i> Fashion (shoes) e-commerce website Wordpress Woocommerce	<i>Virtual</i> April 2020 - Now



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.