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: -

Florentina Studiorum Universitas - University of Florence   *Florence, Italy*
B.S. IN COMPUTER SCIENCE   *October 2016 - October 2019*
• Grade: 110 cum laude / 110

I.T.S. Tullio Buzzi   *Prato, Italy*
HIGH-SCHOOL DIPLOMA IN INFORMATION AND COMMUNICATIONS TECHNOLOGY   *September 2011 - July 2016*
• Grade: 100 / 100

Skills 👤

TECHNICAL

Programming   Python, Java, C, C++, Scala, MATLAB, Prolog
Libraries   Qt, OpenCV, Django, SciPy (NumPy, Pandas, ...), SciKits
                  (scikit-learn, scikit-image, ...), Spark
Tools   Bash, Git, Docker, LaTeX, Jupyter
Web   HTML, CSS, Javascript, jQuery, PHP, REST API, MySQL, Wordpress
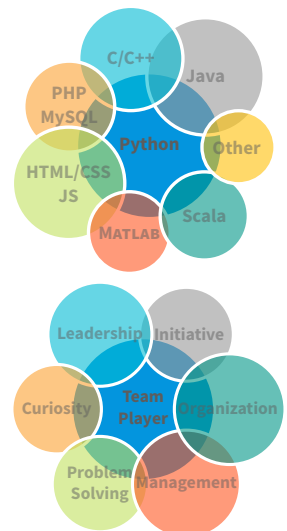
INTERPERSONAL

Languages   Italian, English
Capabilities Project planning, Project management, Teamwork, Leadership,
                  Organization, Initiative, Curiosity, Problem solving
Hobbies   Photography, Travelling, Food culture, Cuisine

PREFERENCES

Likings   Computer vision, Data science, Declarative programming
Dislikings   Web development, .NET framework, C# programming language

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`

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`

QI-Lab S.r.l.

Sesto Fiorentino, Florence, Italy

Python Developer · Internship

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

`PHP MySQL`

Develer S.r.l.

Campi Bisenzio, Florence, Italy

Python Developer · Internship

June 2015

Project — Barcode handling GUI design and deployment

`Python Qt`

Websites 🌐

tognonishop.com

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Website Administrator · Freelance

April 2020 - Now

- Project → Fashion (shoes) e-commerce website
- Technologies → Wordpress, Woocommerce

studio54italy.it

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Website Administrator · Freelance

March 2020 - Now

- Project → Textile catalog website
- Technologies → Wordpress, Woocommerce

loscoiattolofirenze.it

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Website Administrator · Freelance

March 2020 - Now

- Project → Fashion (clothes) e-commerce website
- Technologies → Wordpress, Woocommerce

walterquiet.com

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Website Administrator · Freelance

December 2018 - Now

- Project → Photography presentation website
- Technologies → 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*

Projects </>

OPEN SOURCE SELECTION

Tablut player
University of Bologna

AI BOARD GAME PLAYER
November 2019 - December 2019

- Project → AI player which uses iterative deepening beam *minimax* search with alpha-beta pruning and transposition tables
- Technologies → Python, Qt

Quoridor player
University of Florence

AI BOARD GAME PLAYER
June 2017 - September 2017

- Project → AI player which uses a modified version of the *jump point search* algorithm
- Technologies → Java

Holum
I.T.S. Tullio Buzzi

A TRUE HOLOGRAPHIC EXPERIENCE
December 2015 - July 2016

- Project → Multimedia hardware and GUI which aim at emulating an hologram
- Technologies → C++, SFML, sfeMovie, OpenGL, assimp
- Tools → Myo Armband, Leap Motion

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.