# 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

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

### Interpersonal

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

### Preferences

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|---|---|
| **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 · Internship (3 mos) · Freelance (5 mos)
*March 2019 - October 2019*
- Project → Identity documents OCR library development
- Technologies → Python, OpenCV, Django, Tesseract, Google Vision, ABBYY

**Continental S.p.A.**
*Fauglia, Pisa, Italy*
Python Developer · Freelance
*January 2019 - September 2019*
- Project → Manually operated visual inspection digitalization
- Technologies → Python, Qt

**walterquiet.com**

WEBSITE ADMINISTRATOR · FREELANCE

*December 2018 - Now*

- Project → Photography presentation website
- Technologies → Wordpress, Squarespace, Woocommerce, Leadpages, Deadline Funnel, Kajabi, Kartra

**EasyClaims.eu · Pro Claims S.r.l.**

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PHP DEVELOPER · FREELANCE

*January 2018 - March 2018*

- Project → Insurance claims video verification interface
- Technologies → PHP, MySQL

**Develer S.r.l.**

*Campi Bisenzio, Florence, Italy*

PYTHON DEVELOPER · INTERNSHIP

*June 2015*

- Project → Barcode handling GUI design and deployment
- Technologies → Python, Qt

# 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, aima-python

### 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.