europass Curriculum vitae

## PERSONAL INFORMATION

# Francesco Marchitelli




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Sex Male | Date of birth 25/02/1985 | Nationality Italian

## PERSONAL STATEMENT

A highly skilled **Computer Engineer graduate** and motivated Software Developer with seven years' experience in ICT, Networking, Computer Science, Analysis and Software Development with proven experience in Software Engineering.

Currently working at *Big Data* and *Artificial Intelligence,* with good knowledge of *Cloudera Suite, Spark, Scala and Java.*
Passionate and expert of *Semantic Web* and *Linked Open Data*.

Developer / Member of **Google Developer Group Bari**.
Member of **Alumni Mathematica**.
Member of **Italian Association for Machine Learning**.
Member of **Spaghetti Open Data**.

With proven ability in multi-disciplinary teamwork, I am seeking to continue a career as a Software Developer in a dynamic and innovative environment that supports career progression.

## WORK EXPERIENCE

02/05/2018–Present

### Big Data Engineer and Team Leader, Machine Learning Specialist

Fincons S.p.A., Bari (Italy)
www.finconsgroup.com

- Development of **Spark Jobs**, responsible of ETL process from Oracle RDBMS into HBase (Scala, Java, Spark, Git).
- Technical migration of **Spring Data Hadoop** library with **Hadoop Parquet Writer** and **Hadoop File System Utils** libraries (Spring 5, Spring-Boot 2, Java, Scala, Spark, R, OpenShift OTC, Docker, Jenkins, SonarLint, SonarQube).
- Development of **Machine Learning algorithms** able to predict Energy Trader consumption (Python, R, Weka).

19/06/2017–29/04/2018

### Software Developer and Team Leader

Code Architects s.r.l, Santeramo in Colle (Italy)
https://codearchitects.com

• Web App functionalities development of **WKI-Notaro** Project (*Angular 2, HTML5, NodeJS, ELK, Git*).
• **Team Leader** and **Scrum Master** of VB Migration Software (*VB6, VB.NET, TFS*).

15/03/2017–14/06/2017

### DevOps

Ingloba360 s.r.l., Gioia del Colle (Italy)
www.ingloba360.it

• Design and development of **PayER**, the centralized online payment system of Emilia Romagna Region Public Administration. The system adheres to the Pago PA standard of AgID, Italian Digital

Agency (*Wildfly 10, JavaEE 7, Jenkins, Angular 2, SVN*).
• Design and development of **Citizen's Portal**, which adheres to AgID, Italian Digital Agency, design guidelines for PA web services (*Drupal 8, NodeJS, Angular 2, HTML5, Git*).

18/05/2015–09/03/2017

### Software Developer

Corvallis S.p.A., Lecce (Italy)
www.corvallis.it

• Development of a **Semantic Multi Source Analyser** in the money-laundering domain (*Eclipse Plugin, Teiid, Komma RDF, Ontop, RelFinder*).
• Development of a **Named Entity Recognition** Algorithm in the insurance domain (*Brat NLP*).
• Development of a **Cataloguing System** in the Cultural Heritage domain for Lazio Region (*Apache Solr, Spring, JQuery, Git*).

31/03/2015–31/05/2015

### Team Leader

Spazio Dati s.r.l., Trento (Italy)
www.spaziodati.eu/it

▪ Development of the Android App, available on Google Play, **IN THE FOOTSTEPS: TRENTINO'S FAMOUS PEOPLE**, being the winner of the Hackathon LOD that Works, sponsored by *FUSEPOOL FP3* (*Java EE, SPARQL, RDF, OWL, LOD, Git*).

12/01/2015–13/05/2015

### Software Developer

SisinfLab Polytechnic University of Bari, Bari (Italy)
http://sisinflab.poliba.it/dinoia/

▪ Development of **X-LOD** platform, which achieves a CMS for the consultation and management of *Linked Open Data* (*Angular JS, Java EE, Memcached, MySQL, Git, RDF, OWL, SPARQL, LOD*).

24/11/2014–24/03/2015

### Internship

Autologs S.r.l. at Polytechnic University of Bari, Bari (Italy)
http://www.autologs.eu/

▪ DSS Development of Trieste Port, suitable for multi-modal transport management, being part of the European Project **CO-GISTICS** (*Matlab, Visio, Arena, JavaScript, Visual Basic*), for the purpose of Master's Degree Thesis.

14/04/2014–13/10/2014

### Analyst Web Developer

Innovation Factory at Basilicata Innovation, Matera (Italy)
http://www.basilicatainnovazione.it/

▪ Development of **WREADERS** Start Up Web Oriented Platform (*Drupal, PHP, SQL*).

04/03/2014–20/08/2014

### Analyst Web Developer

SysMan Projects & Services, Bari (Italy)
www.sys-man.it

▪ Web App functionalities development for Living Labs Apulian Project **MODS** and **AGRES** (*LAMP, SwaggerPHP, Slim, Bootstrap, JSON, ReST, Mongo DB, MySQL, phpBB*).

04/06/2013–19/11/2013

### Image Processing Engineer

Planetek Italia s.r.l., Bari (Italy)
http://www.planetek.it/

Image Processing of **SPOT5** Images Datasets, with *Normalized Cross Correlation Based Matching* and *Shape Based Matching* algorithms (MvTEC Halcon).

18/12/2012–28/02/2013

### Android Developer

InnovaFormazione s.r.l., Bari (Italy)


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http://www.innovaformazione.net/

▪ Development of Android App **ShowVille News** (*Java, Jsoup, XML*).

03/11/2011–29/02/2012

### Analyst Web Developer

Fincons Group at SMA - Intini Group, Noci (Italy)
www.finconsgroup.com

▪ Web App functionalities development for **SOSPlanner SMA-DSS Campania** (*Cappuccino, Objective – J, NodeJS, JSON*).

12/01/2009–30/06/2009

### Internship

DEI Polytechnic University of Bari, Bari (Italy)
http://dee.poliba.it/

▪ Bachelor's Degree Thesis Development in Digital Electronics: **Development of Sequential Machines**, using *Mealy and Moore automata* (*Switcher Cad, DSCH2*).

## EDUCATION AND TRAINING

05/2017–07/2017

### Short Master, "GIM – Young Entrepreneurs"

EQF level 7

Spegea Business School, LUM University "Jean Monnet", Gioia del Colle (Italy)

▪ Business development; Building the Business, from Idea to Project; Business Planning, Designing and Administration Tools; Legal and Financial Aspects of a Company.

06/2015–11/2015

### Government Exam

EQF level 7

Polytechnic University of Bari, Bari (Italy)

▪ *License as a Profession Engineer*.

01/2015–05/2015

### 1st Level Master, Computer Engineering

EQF level 7

Polytechnic University of Bari, Bari (Italy)

**ERMES** - **Enhance Risk Management through Extended Sensors**:

▪ *Semantic Web, IoT, Android Developing, Image Processing, Arduino, Business Process Management, Sensors, Start-up and Innovation Technology*.

09/2009–03/2015

### Master's Degree, Computer Engineering

EQF level 7

Polytechnic University of Bari, Bari (Italy)

CV **"Networking and Information Systems"** – Thesis in *Production System Controlling and Modelling*: "**CO-GISTICS: study and analysis of management techniques for multimodal cargo**".

▪ *Software Engineering, Artificial Intelligence, WEB Information Systems, Networking, E-Business Models, Information Systems Security, Vision and Image Processing, Micro & Nano Electronic Systems.*

09/2004–07/2009

### Bachelor's Degree, Computer Engineering

EQF level 6

Polytechnic University of Bari, Bari (Italy)

Thesis in *Digital Electronics*: **"Project of Sequential Machines".**

▪ *Operating Systems, Electronic Computers, Telematics, Automation, Information Systems, Fundamentals of Computer Science.*

09/1999–06/2004

### Scientific High School Certificate

EQF level 5

Liceo Scientifico "Ricciotto Canudo", Gioia del Colle (Italy)

▪ *Italian, Latin, English, Mathematics, Physics, History, Chemistry, Philosophy.*


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## PERSONAL SKILLS

**Mother tongue(s)** Italian

**Foreign language(s)**

| | UNDERSTANDING | | SPEAKING | | WRITING |
|---|---|---|---|---|---|
| | Listening | Reading | Spoken interaction | Spoken production | |
| English | B2 | B2 | B2 | B2 | B2 |
| | Cambridge FCE - B2 First | | | | |
| French | A1 | A2 | A1 | A1 | A2 |

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages - Self-assessment grid

**Communication skills**

- Participation at **#RestartItaly**, sponsored by *Microsoft* and Polytechnic University of Bari, having been selected to discuss at *"Job Environment Reshape: the world of work and the central value of the new digital skills"* – Bari, 15/12/2014.
- Participation at **#StartUpWeekEndLecce** – Lecce, 03-04/10/2015.
- Participation at **#MiniAgileDay** - Bari, 10/03/2018.
- Participation at **#StartUpWeekEndBari AI and Blockchain** – Bari, 27-28/10/2018.

**Organisational / managerial skills**

- Speaker at ***#OpenDataDay2017*** – Gioia del Colle, 04/03/2017.
- Member and Developer of **Google Developer Group Bari:**
  - Speaker at ***#StartUpBootcampBenevento*** – Benevento, 14/04/2015.
  - Speaker at ***#GDGDevFestBari2015*** – Bari, 25/11/2015.
  - Speaker at ***#GDGDevFestBari2016*** – Bari, 25/11/2016.
  - Speaker at ***#GDGDevFestBari2017*** – Bari, 06/10/2017.
- Member of **Alumni Mathematica**
- Member of **Spaghetti Open Data:**
  - Speaker at ***#OpenDataFest2017*** – Caltanissetta, 02-04/06/2017.
  - Speaker at ***#LinkedOpenDataSicilia2018*** – Palermo, 09/11/2018.

**Job-related skills**

- **Python Introduction Course for Scientific Calculation**, organized by *Alumni Mathematica* and *University of Bari*, from November to December 2014.
- **BigDat 2017 – 3rd International Winter School on Big Data**, organized by *Universitat Rovira Virgili* and *University of Bari*, Certificate of Participation, February 2017.
- **Winner of Hackathon organized by Codemotion and Team Digitale** – November 2017
- **Overview Cloudera Suite, CCA159 Course, CCA175 Course** organized by ***AgileLab***, Certificate of Participation, - February 2019
- **Winner of Hackathon organized by ArCo and ICCD** – April 2019
- **Summer School Mathematical Methods in Data Science,** organized by *Alumni Mathematica* and *University of Bari*, Certificate of Participation, - July 2019

**Digital skills**

| SELF-ASSESSMENT | | | | |
|---|---|---|---|---|
| Information processing | Communication | Content creation | Safety | Problem-solving |
| Proficient user | Proficient user | Proficient user | Proficient user | Proficient user |

Digital skills - Self-assessment grid

ECDL, achieved at AICA – Bari
CISCO CCNA Discovery Certification "Working at a Small or Medium Business or ISP", achieved at


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Accademia del Levante – Bari
Allied Telesys Certification, achieved at Polytechnic of Bari
Google Online Marketing Challenge 2011, Certificate of Participation

- Languages:

*C, C++, Java, Scala, PHP, Python, R, SQL, HTML5/CSS3, JavaScript, UML, Prolog, SPARQL, OWL.*

- Framework:

*Spring, Slim, Bootstrap, jQuery, Angular, RDF, TensorFlow.*

- DBMS:

*MySQL, PostgreSQL, SQLServer, Oracle, Teiid, MongoDB, HBase.*

- Software:

*Jenkins, CISCO Packet Tracer, DSCH2, Switcher Cad, Arena, LabVIEW, SWI-Prolog, AutoCAD 2D, Weka, Wireshark.*

- Operating Systems:

*Windows, Linux.*

Other skills

- Participation, on 13/02/2004, at the **National Competition Level 2 Italian XVIII Olympiad of Physics**, as reported by my school among the five winners of the competitions of the Olympics Italian Institute of Physics held on 15/12/2003;
- Achievement of the course PON - FSE **"Becoming WEB designer"**: *DNS, WEB MODELLING, web usability, web writing, HTML, XHTML, NVU, CSS, THE GIMP, FLASH, JOOMLA, FileZilla client FTP, WEB MARKETING* - awarded by "ITC Colamonico "Acquaviva delle Fonti (BA), 2009;
- Achievement of the course PON - FSE **"Drawing with the computer: CAD": AUTOCAD** - awarded by "ITIS Galilei", Gioia del Colle (BA), 16/12/2009.

Driving licence A, B

## ADDITIONAL INFORMATION

Projects

- **ATM Simulator** - *C++*;
- **Search Engine for sites exploration** by using the algorithms of Kruskal and Dijikstra - *Java*;
- **Design of a E - Learning based Platform** on Computational Grids – *Globus, Moodle (teamwork)*;
- **Study and Application of Watermarking Techniques** for protecting Wave audio file - *C#*;
- **Acquisition of the transient electric motor** by means of a Hall effect current sensor (teamwork) - *LabView*;
- **Web Portal Project "Share You University" of resource sharing** between Universities and Students (teamwork) - *LAMP, SEO, Visio, COCOMO;*
- **Analysis of Import Flow of Trieste Port** (teamwork) - *Arena, Visio;*
- **Study of Nano Optical Antennas for Third Generation Photovoltaic Applications**;
- **Study and Diagnostics of Materials with the eddy current method**.

In compliance with the GDPR and Italian Legislative Decree no. 196 dated 30/06/2003, I hereby authorize the recipient of this document to use and process my personal details for the purpose of recruiting and selecting staff and I confirm to be informed of my rights in accordance to art. 7 of the above mentioned Decree.

Francesco Marchitelli


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