# Personal information

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|---|---|
| Surname(s) / First name(s) | **Natilla, Nicola Alessandro** |
| Email(s) | `alessandro.natilla@gmail.com` - `me@alessandronatilla.it` |
| Nationality(-ies) | Italian |
| Gender | male |

# Work experience

| | |
|---|---|
| Data | Aug 2015 – Dec 2015 |
| Occupation or position held | MSc stage in KDDE (Knowledge Discovery and Data Engineering) Lab at Department of Computer Science, University of Bari "Aldo Moro" |
| Abstract | Analysis, Design and Development of scalable, distributed algorithms and cluster architecture which goal is solar plant's daily energy amount (KWh) prediction from sensors network data streams. |
| Thesis coordinator | Prof. Michelangelo Ceci |
| Thesis advisor | Dr. Roberto Corizzo |
| Used technologies | Apache Spark 1.5.2 |
| | Java 8 |
| | Scala 2.10 |
| | Akka 2.4 |
| | Apache Mesos 0.24 |
| | PostgreSQL 9.4 |
| | Weka |
| | Maven |
| | Git |
| | |
| Data | Feb 2015 – Jul 2015 |
| Occupation or position held | Analyst, Designer and Developer |
| Abstract | Case Study for Intelligent Information Access and NLP course, MSc in Computer Science, University of Bari "Aldo Moro" |
| Description | Analysis, Design, Implementation and Experimentation of high scalable algorithm concerning text indexing and analysis (text classification and distributional models). Project was developed in the SWAP (Semantic Web Access ad Personalization) research lab (Department of Computer SCience, University of Bari "Aldo Moro"). |
| Used technologies | Java 8 |
| | Akka. io 2.3 |
| | Apache Spark 1.4.1 |
| | Apache Lucene 4.3.0 |
| | Play! Framework 2.4 |
| | Git |
| | |
| Data | Jan 2015 – Feb 2015 |
| Occupation or position held | Analyst, Designer and Developer |
| Abstract | Case Study for Computational Intelligence course, MSc in Computer Science, University of Bari "Aldo Moro" |

| | |
|---|---|
| Description | Analysis, Design, Implementation and Experimentation of a compression module based on NuSVM technique in the DC* algorithm, developed in the Computational Intelligence Lab (Department of Computer Science, University of Bari "Aldo Moro") for extracting fuzzy information granules which enhance dataset preliminar exploration. |
| Used technologies | Python 2.7 |
| | scikit-learn |
| | PyCharm IDE |
| | Git |
| | |
| Data | Dec 2014 – Jan 2015 |
| Occupation or position held | Analyst, Designer and Developer |
| Abstract | Case Study for Collaborative Systems course, MSc in Computer Science, University of Bari "Aldo Moro" |
| Description | Analysis, Design and Implementation of GUI features for an instant multilanguage support tool designed for multicultural and multilanguage development teams. Development process was focused on Agile style using Microsoft Visual Studio as IDE, Codeplex as DVCS and several support tools as SocialTFS, developed in the Collaborative Development Group (Department of Computer Science, University of Bari "Aldo Moro") |
| Used technologies | C/C++ |
| | WxWidgets |
| | Microsoft Visual Studio 2013 |
| | CodePlex |
| | CxxUnit |
| | Agile methodology |
| | |
| Data | Lug 2014 – Lug 2014 |
| Occupation or position held | Analyst, Designer and Developer |
| Abstract | Case Study for Database Systems II course, MSc in Computer Science, University of Bari "Aldo Moro" |
| Description | Analysis, Design and Development of a Relational Database, Web Application and DataWarehouse/DataMart for the management of a fictitious local transport company |
| Used technologies | PostgreSQL |
| | Play! framework 2 |
| | Mondrian |
| | HTML5 / CSS3 |
| | Maven |
| | Hibernate |
| | Git |
| | Java |
| | REST and MVC Architectural patterns |
| | |
| Data | Mar 2014 – May 2014 |
| Occupation or position held | Analyst and Designer |
| Abstract | Case Study for Human Computer Interaction II course, MSc in Computer Science, University of Bari "Aldo Moro" |
| Description | The problem addressed in this study regards the absence of usability practices in industry. |
| | Several state-of-the-art works discovered some bad practices like high Human-Centered Design costs in current software development processes, absence of Usability measures/frameworks/guidelines in Call for Tenders setting, "developer mindset" as developers often focus their efforts on internal software qualities despite UI aspects. |
| | Project focuses on analisys (via questionnaires) of developers knowledge about usability and a proposal about a Call-for-Tenders oriented theoretical framework |

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Nicola Alessandro Natilla. For further
info `www.alessandronatilla.it`

| | |
|---:|:---|
| Data | Jul 2013 – Nov 2013 |
| Occupation or position held | Analyst, Designer and Developer |
| Abstract | Case Study for Artificial Intelligence course, MSc in Computer Science, University of Bari "Aldo Moro" |
| Description | Analysis, Design and Development of a dependency analyzer for Prolog code |
| Used technologies | Prolog YAP interpreter |
| | Java |
| | Json |
| | Interprolog |
| | |
| Data | Nov 2012 – Mar 2013 |
| Occupation or position held | BSc stage in LACAM (Knowledge Extraction and Machine Learning Lab) at Department of Computer Science, University of Bari "Aldo Moro" |
| Description | Analysis, Design and Development of a News Clustering algorithm: work was focused on crawling chronicle news from local Internet newspapers and cluster them searching for common crime facts |
| Thesis coordinator | Prof. Donato Malerba |
| Thesis advisor | Dr. Fabio Fumarola |
| | |
| Used technologies | NLP techniques |
| | Machine Learning techniques |
| | Git |
| | Maven |
| | Hibernate / Ebean ORM |
| | Java |
| | PostgreSQL |
| | |
| Data | Jun 2012 – Jul 2012 |
| Occupation or position held | Analyst, Designer and Developer |
| Abstract | Case study for Design DataBases with Advanced Data Models course, BSC in Computer Science and Software Engineering |
| Description | Analysis, Design and Development of an Object-Relational Database with spatial features about a virtual phone company |
| Used technologies | PostgreSQL |
| | PostGIS |
| | QGis |
| | |
| Data | Apr 2012 – Jun 2012 |
| Occupation or position held | Analyst and Designer |
| Abstract | Case study for User Interaction Design course, BSC in Computer Science and Software Engineering |
| Description | Analysis and Design of a GUI for a domotic management system panel, applying usability principles (ISO9241) |
| | |
| Data | Aug 2011 – Sep 2011 |
| Occupation or position held | Analyst, Designer and Developer |
| Abstract | Case study for Web Programming course, BSC in Computer Science and Software Engineering |
| Description | Analysis, Design and Development of a Web Application for going out activities planning |
| Used technologies | MySQL |
| | PHP5 |
| | PHPmyAdmin |
| | HTML/CSS |

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# Education and training

| | |
|---|---|
| Place and Date | Johannes Kepler University Linz (AT), Jul 20 2014 - Aug 2 2014 |
| Title of qualification awarded | ERASMUS Intensive Program - "Subject-driven role-guided externalization of organizational models" (SURGEOM 2014) Summer School |
| Accomplished title | Gained participation certificate |
| Skills | Modeling fundamentals |
| | Theories Model Building |
| | TICS Quality Models (SEQUAL framework) |
| | UML activity diagrams |
| | BPMN 2.0 |
| | PACT framework |
| | FARAW framework |
| | Gamification techniques |
| | Storyboards Company showcases: application of the acknowledged skills in business context |
| | |
| Place and Date | Università degli Studi di Bari "Aldo Moro", 2013 – 2015 |
| Title of qualification awarded | MSc in Computer Science (Informatica Magistrale) |
| Skills | Artificial Intelligence |
| | Data Mining |
| | Human Computer Interaction II |
| | Database Systems II |
| | Natural Language Processing and Intelligent Information Access |
| | Collaborative Systems |
| | Computational Intelligence |
| | Cooperative Distributed Systems Design Models |
| | Formal Methods for Computer Science |
| | Experimental Methods for Software Production |
| | Numerical Methods for Computer Science |
| Accomplished title | MSc in Computer Science - 106/110 |
| | |
| Place and Date | Ecole Polytechnique Federale de Lausanne (Switzerland) via Coursera.org, Sep 2012 - Dec 2012 |
| Title of qualification awarded | Functional Programming Principles in Scala |
| Accomplished title | Gained certificate - 96,9/100 |
| Skills | Scala |
| | Functional Programming |
| | |
| Place and Date | Università degli Studi di Bari "Aldo Moro", 2008 – 2013 |
| Title of qualification awarded | BSc in Computer Science and Software Engineering (Informatica e Tecnologie per la Produzione del Software) |
| Skills | Computer Programming |
| | Computer Architectures |
| | Algorithms and Data Structures |
| | Web Programming |
| | Operating Systems |
| | Computer Networks |
| | Software Engineering |
| | Statistics |
| | Mathematical Analysis |
| | Discrete Mathematics |

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|                          | Database Systems I |
|--------------------------|--------------------|
|                          | Design Databases with Advanced Models |
|                          | Business Knowledge Management (AI - IR) |
|                          | Software quality models |
|                          | Web Informative Systems |
|                          | User Interaction Design (HCI) |
| Accomplished title       | BSc in Computer Science - 99/110 |

| Place and Date | ITCS "Vitale Giordano" Bitonto, Set 2002 - Jun 2007 |
|----------------|------------------------------------------------------|
| Title of qualification awarded | Accountant Diploma |

## Personal skills and competences

**Mother tongue(s)**  **Italian**

**Other language(s)**  English

*Self-assessment*
*European level*[(*)]

| Understanding | | Speaking | | Writing |
|---------------|---------|--------------------|-------------------|---------|
| Listening | Reading | Spoken interaction | Spoken production | |
| good | good | good | good | good |

[(*)]*Common European Framework of Reference (CEF) level*

**English**

**Social skills and competences**

Naturally addicted to team collaboration, I worked for many academical project works in Italian and in English (in the context of SURGEOM 2014 Summer School).

**Organisational skills and competences**

Member of the Organizational Board of the "Linux Day Bari" 2013 and 2015 events, introducing audience about Open Source and Linux.

**Computer skills and competences**

Java, Typesafe Akka, Apache Spark, Apache Hadoop, SQL3, BASH, Scala, PLpg-SQL, R, Octave, Matlab, Python, Prolog, Git, MySQL, PostgreSQL, Windows, Linux, Microsoft Office, LibreOffice

**Other skills and competences**

I love play soccer, cook, read books and watch TV series.

**Driving licence(s)**  B

## Additional information

visit my website `www.alessandronatilla.it` for further info about me and my projects (GitHub, Linkedin, ...)