Marco De Nadai

CONTACT INFORMATION

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EDUCATION

Vrije Universiteit Amsterdam, The Netherlands — **August 2013 – present**

Computer science - Artificial Intelligence
Exchange Student

Università degli Studi di Trento, Italy — **September 2012 – present**

Computer Science - Information retrival and data managment
Master Student

Università degli Studi di Udine, Italy — **October 2007 – March 2012**

Computer Science
Bachelor Student, 103/110

PROFESSIONAL EXPERIENCE

Machine Learning Intern
University of Amsterdam, Netherlands — **April 2014 - present**

Project with the aim of detecting "anomalies" and unusual events, in energy consumption of buildings from a datasets involving more than 20 buildings of Amsterdam. The project involved the construction of a Neural Network able to predict the energy consumptions.
Languages used: Python

iOS developer
Ulook, Italy — **February 2013 - December 2013**

iOS and API developer for Ulook, a fashion mobile application. I developed the app, proposed and applied a new design for a better user experience and optimized it for iOS 7.
Languages used: Objective-C

Lead web develper and Software Engineer
MCZ GROUP S.p.A., Italy — **May 2008 – February 2012**

PHP Zend Framework developer with knowledge in IBM AS/400 communication and interaction. Front-end developer experienced in A/B testing and marketing strategies. Developer of geo-marketing solutions aimed to map turnovers of MCZ GROUP's clients. Technologies used: mySQL, jQuery, HTML5, CSS3, git, Nginx, Apache, Linux.
Languages used: PHP, Java, Javascript

AWARDS

Finalist Data Journalism Awards 2014
Global Editors Network — **May 2014**

The Data Journalism Awards rewarded "The Westgate attack" **data visualisation** project as an outstanding work in the field of data journalism in any media worldwide.

Best mobile application
Smau 2014 — **March 2014**

Ulook was recognized as the best application in the "Community and Social" category by the "Smau Mob App Awards".

Special creativity price
IED, allo StartupWeekEnd 2012 di Torino — **June 2012**

Special creativity award from IED (http://www.ied.com) at StartupWeekEnd 2012. The awarded project was "Linked Green", a prototype that enables the user to scan a product's barcorde and see all the information about its package and its eco sustainability.

Personal Projects

Westgate Attack
Master project **2013**

Visualization about the Westgate shopping mall attack case that took place in Nairobi, Kenya, during 21-24 September 2013. This project analyzed around 700'000 Tweets and tried to describe the events throught the users' behaviour. The beta can be found: http://lstout.github.io/westgate/html/. Tools used: Python, SQLAlchemy, PIL, D3js.

A new massive data analytics approach to football
Master project **2013**

Small framework of tools which enables the coaches to base their new strategies not only on their intuition and judgment, but also on comprehensive (and maybe not human-eye visible) statistics.
The framework is composed by a training clustering (with K-means), a trajectories clustering (TRACLUS), a speed performance analysis and a passages pattern visualization.

easyAround
Master project **2013**

Python web application implemented following the commonKADS model. The project can be found at: https://github.com/denadai2/EasyAround. Tools used: Flask, Flask-SQLAlchemy and PIL and Beatiful-soup4 for the scraper.

Formal verification OAuth 2.0 protocol
Bachelor project **2010**

Formal verification of the protocol OAuth 2.0 (draft 22) using the automatic cryptographic protocol verifier Proverif (`http://prosecco.gforge.inria.fr/personal/bblanche/proverif/`).

Komixjam.it
Developer - Founder **2006 – 2010**

Brand creation and establishment of a community that counts 30'000 unique visits a day. Technologies used: mySQL, Sphinx, CSS, jQuery, Nginx, Linux.

Skills and Background

Advanced knowledge: Java, Objective-C, Python, PHP, Javascript, HTML5, CSS3, SQL
Medium knowledge: C, C++

Certifications

CCNA 1-2
Cisco

IT Administrator 1-3
EUCIP

Languages

- *English:* good (B2 level)
- *Italian:* native

List of courses (University)

Vrije Universiteit Amsterdam, The Netherlands **August 2013 – present**

Computer science - Artificial Intelligence

- Evolutionary Computing *(Evolutionary algorithms, strategies...)*
- Coding and Cryptography
- Knowledge Engeneering
- Distributed System
- Machine Learning *(Supervised/Unsupervised Learning, Neural networks...)*
- Information visualization *(D3js, theory...)*

Università degli studi di Trento, Italy **September 2012 – present**

Computer Science - Information retrival and data managment

- Formal methods
- Economics and Management - Innovation and Enterpreneurship
- Data and information integration *(Information retrieval...)*
- Technical Writing *(how to write papers and scientific documents...)*
- Laboratory of Business Process Management *(Signavio, Business managment...)*
- Advanced Business Intelligence Techniques *(Pagerank, Hadoop...)*
- Massive Data Analytics *(data mining, data structures, pratical data mining projects...)*
- Security Testing *(white/black box testing, web security, penetration tests...)*

Università degli studi di Udine, Italy **October 2007 – March 2012**

Computer Science

- Mathematical Analysis
- Computer Architecture
- Programming
- Physics
- Discrete Mathematics
- Algorithms
- Professional ethics
- Statistics
- Mathematical logic I
- Mathematical logic II
- Objective Oriented Programming
- Scientific Calculus
- Computability I
- Computability II
- Operative Systems
- Databases
- Software Engineering
- Formal Methods I
- Networks
- Network security & Lab.
- Web Design