

1 Personal Information

Surname, Name: **Di Napoli, Alfredo**
Phone: (+39) 3409474126
Email: alfredo.dinapoli {at} gmail.com
Website: www.alfredodinapoli.com
Citizenship: Italian
Date of birth: 10th of December, 1987
Hometown: Rome, Italy
Gender: Male



I consent to treatment of personal data as per Italian State D.Law 196/2003.

2 Current Employment

Present **Intern at MBDA Italia Spa**
Researching Java capabilities in safety and performance critical software.

3 Work experience

C/C++ **Six months** software development writing **Laetus**, my senior thesis, focusing on C++ best practices (e.g, const-correctness, common idioms, etc) and C++0x exploration.

Python **Three years** of programming, focusing on Web applications development with the **Django** framework.

4 Education

2012-05-24 **Master Degree in Computer Engineering (Laurea Nuovissimo Ordinamento, DM 270), 110 Cum Laude.** Department of Informatics and Automation, Faculty of Engineering, Università Roma Tre, Italy. Advisor Ing. Franco Milicchio. Dissertation “Sviluppo di un framework C++ con binding Erlang per computazioni parallele su piattaforme eterogenee”.

2009-09-7 **Bachelor of Science in Computer Engineering (Laurea Nuovo Ordinamento, D.M 509), 110/110.** Department of Informatics and Automation, Faculty of Engineering, Università Roma Tre, Italy. Advisor Prof. Alessandro Micarelli. Dissertation “Progettazione e sviluppo di un’applicazione di geotagging con modellazione dell’utente”. My thesis regarded analysis and development on a web application which relied on spatial data took from a GIS database and a module of user modeling to discover users with similar tastes.

5 Publications

- 2010 **A. Di Napoli, F. Gasparetti, G. Sasonetti, A. Micarelli.** “**A Step toward Personalized Social Geotagging**”. In Proc. of IUI 2010 Workshop on Social Recommender Systems, Hong Kong, China, 7-10 February, 2010.

6 Personal Skills

- Languages* Italian (native), **English** good in written and preliminar in spoken (EU Class B1 - PET (Preliminar English Test), **EU Class C1** in proceedings, achieving estimated date on 25th of July, 2012.)
- OS* Mac OS X, Linux (Gentoo and Debian) and Windows. Decent knowledge of **Unix**, toolchain and command lines tools such as *grep*, *awk*, *make* or *gcc*, compilation and deploying of COTS software. Low level insight about compilation and linking issues of C/C++ programs, as well as a good attitude in troubleshooting them.
- Programming* Good experience with Python, Java and C/C++. Decent experience with languages such as Common Lisp, **Haskell**, Scheme, Clojure, Scala, Erlang, OCaml, F#. I’ve tried or I’ve been dealing with **Bash Scripting**, Ruby, SQL, JavaScript, HTML/XML, Assembly. Proficient with software development techniques and design patterns, including system analysis and modeling through **UML** diagrams, as well as architectural design patterns such as Model Driven Architecture and **Kruchten’s 4+1 View Model**. *ECDL* degree achieved in 2005.
- Databases* Experience with DB administration task like creation, migration and tuning of databases of medium complexity. Knowledge of common performance-tuning technique like *Hoyce-Cobb* normalization. My bachelor thesis also dealt with **GIS databases** for manipulating spatial data in a convenient and effective way.

7 Open Source Projects

- Laetus* A C++ Framework that aims to alleviate the burden of programming in plain **OpenCL C**. It’s my senior thesis project and it’s still under active development. For more information and documentation visit the website <http://laetus.sourceforge.net/>

8 Miscellaneous

- I’m a moderator of *Python-it* forum
- Voluntary Blood Donor, I’m member of the *Ema-Roma* Association

- I like reading books, especially Murakami Haruki's ones
- I'm an active contributor of Open Source software
- I like to learn and experiment with every kind of new programming language or technology

9 Personal Interests

Zen philosophy in life and software development, Functional Programming and functional programming techniques (lazyness, memoization, etc), distributed and parallel computations, 3D Graphics and Videogames, Fractals, Photography, Running.