

Antonio Mallia

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Work Experience

2013–present **Software Engineer, NIC .it - CNR.**

Worked for the Italian National Research Council on projects for the ccTLD .it Registry.

Detailed achievements:

- Developed several features of the main application (RAIN-NG) used by NIC .it domain name registrars. Focused on database query optimization, export of data, third-party web-services integration.
- Co-operated on the development of an internal application (jBilling), used by administrative staff to manage contracts and billing system. Focused on UX enhancement, data presentation and export.
- Co-operated on the development of an ETL system and presentation of data using interactive charts.
- Developed a UI library for JavaServer Faces (JSF) application and integration with the main NIC applications.
- Planned and developed an e-voting system (Endorse-Me) used for the election of the steering committee.

2011–present **Software Engineer, Self-Employed.**

Detailed achievements:

- Planned and developed a web application providing web privacy and anonymity tools: user management, load balancing, payment integration (Paypal, Bitcoin, credit card gateway, phone). Design of a RESTful API for third-party integration.
- Mail server configuration and administration.
- Google Chrome and Mozilla Firefox extension development to integrate features of a web application.
- Planned and developed a CMS to perform feed aggregation using parsing technics and categorisation.
- Software prototyping of a crawling and parsing system of an airline company to extract flight information and post-analysis.
- Developed a ad-hoc download manager software, including packaging for Windows and OS X.
- Owned an Italian blog network about technology widely-read and realised using Wordpress. Development of several plugins, integration with advertising agency web services. System administration main focused on performance optimisation.

Education

2014–present **Master's degree in Computer Science, University of Pisa, CGPA: 3.68/4.00.**

This Master's Degree in Computer Science provided me a solid, in-depth background, in line with the innovation needs of the informatics field. The courses attended increased my knowledge portfolio, in both the theoretical and practical aspect.

Relevant exams:

- Advanced Algorithms
- Advanced Database Systems
- Advanced Programming
- Computational Models
- Distributed Systems: paradigms and models
- Numerical Methods and Optimization
- Principle of Programming Languages

2012–2013 **Erasmus Programme, University of Essex**, CGPA: 3.91/4.00.

This experience enabled me to understand the value of studying and working in an international environment. Exploring practice-oriented learning methods improved my professional skills.

Relevant exams:

- Programming in Java
- Web Technologies & XML
- Large Scale Software Development & Extreme Programming
- Network Laboratory
- Photonics Networks & Devices
- Mobile Robotics
- Programming Embedded Systems
- Electronic System Design & Integration

2008–2012 **Bachelor's degree in Electronic Engineering, University of Pisa.**

I acquired knowledge of methodological aspects of mathematics and basic disciplines to understand and provide appropriate solutions to engineering problems. During the Curriculum in Electronic Engineering I developed professionally with sound fundamental and multidisciplinary skills ranging from electronics, circuit theory, systems theory, computer science, communications, control theory, economics, electromagnetism, nanoelectronics.

Languages

Italian **Native**

English **Professional working proficiency**

IELTS Certificate (2012)

Computer skills

OS: Mac OS X, Linux and Windows.

Programming: Java, PHP, Python, C/C++, Javascript. Basic Go, Haskell, Assembly, Bash knowledge.

Database: MySQL, MongoDB, SQLite, Redis. Used Hibernate and Querydsl.

Web Design: HTML5, CSS3, jQuery. Basic Photoshop, Gimp knowledge.

Development: Eclipse, Sublime Text, PyCharm, IntelliJ IDEA, Clion, Vim.

Environment:

Project: SVN, Git, Trac, Gitlab.

Continuous: Jenkins, Travis CI.

Management:

Integration:

Web Server: Apache, Lighttpd, Jetty, JBoss AS. Container engine: Docker.

Framework: Seam, Dropwizard, SlimPHP.

Mail: Postfix, Dovecot.

Documentation: Markdown, Latex.

CMS: Wordpress, Ghost.

Personal Skills

Leadership: Good experience in team management acquired training and guiding a blog network editorial staff.