

Antonio Mallia

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Work experience

2016–present **Software Engineer, Bloomberg L.P, London.**

Collaboration platform.

Working on a distributed architecture, ensuring reliability, scalability and performance. Working in an Agile team, doing software development/testing, code optimization and code review.

Joined a full-time Software Engineering Training Programme. Learned about Bloomberg's proprietary technologies, how to work with large volumes of real-time data, and how to develop software in a large-scale, fast-paced environment. Acquire the confidence and skill set to write stable code that is easy to maintain and debug.

2013–2016 **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

2014–2015 **Master's degree in Computer Science, University of Pisa, 110/110 cum laude.**

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

Thesis: Efficient top-k document retrieval with two level indexes

2012–2013 **Erasmus Programme, University of Essex.**

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, C++, C, Python, Javascript, PHP.

Database: MySQL, MongoDB, SQLite, Redis.

Web Design: HTML5, CSS3, jQuery.

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

Project Management: SVN, Git, Trac, Gitlab.

Continuous Integration: Jenkins, Travis CI.

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

Framework: Seam, Dropwizard, SlimPHP. Mail: Postfix, Dovecot.

Documentation: Markdown, Latex. CMS: Wordpress, Ghost.

Publications

Antonio Mallia, Giuseppe Ottaviano, Elia Porciani, Nicola Tonellotto, and Rossano Venturini. **Faster BlockMax WAND with Variable-sized Blocks.** In *Proceedings of the Conference on Research and Development in Information Retrieval (SIGIR)*, 2017.

Invited Talks and Tutorials

04/2016 **Backend for Android Developers** , *Droidcon Italy*, Turin.

Personal skills

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