

MASSIMO NARDELLI

Born in Rome, Italy, on October 11, 1985

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SUMMARY

- I have experience as backend and frontend developer in web, desktop and mobile applications mainly in Java, JavaScript and Python environments.
- I'm able of developing new architectures, models and approaches for problem resolution.
- I'm a fast learner and I have a strong interest in different programming languages, distributed architectures, microservices and nosql databases.
- I like to share knowledge, giving talks at public conferences and writing articles.
- I'm very good at communicating with domain experts and business stakeholders in order to understand the objectives the software must achieve and accordingly identifying the tools best suited for the job.

PERSONAL SKILLS

- I excel at reasoning at different levels of abstraction; this enables me to easily switch point of view or context.
- I'm very good at identifying and modeling project objectives by talking with stakeholders.
- I efficiently choose or create models to describe problems or business domain knowledge.
- I can assess and choose tools and instruments for support project objectives.
- I have a pragmatic approach to project objectives, including planning and knowledge gathering. When solving problems, I look for creative and innovative solutions.
- I have strong knowledge and experience on several design patterns and methodologies for software design.
- I'm very good in keeping the work environment serene and relaxed; when interacting with others I'm sensitive about their emotions, reactions and social needs.

WORK EXPERIENCES

CTO of Spedity, IT startup

February 2017 - April 2017

Acting as intermediary and facilitator between management and IT vendors and suppliers. Helped to identify IT objectives in the business in the mid-term and long-term. Currently supervising global technological choices and strategies according to identified business objectives.

Design and development of a high performance, distributed platform for business processes

October 2016 - currently as freelance

Designed and developed a Java platform for execution of complex business processes, allowing to satisfy high-level requisites of performances, availability and robustness, allowing fast evolution of requisites.

Java, Go

High-abstraction framework for complex frontends

June 2016 - January 2017 as freelance

Designed and developed a JavaScript framework for structuring and developing a complex interactive frontend. It allows to decouple data retrieval, visualization and manipulation from complex presentation logics; it explicitly models user commands and visualization rules. It can be used with multiple frontend frameworks like AngularJS or React.

JavaScript

Analysis and design of a business oriented email client

June 2016 - currently for Lextel S.p.A., part of Technoinvestimenti S.p.A.

An application that allows lawyers to browse certified email in specific juridic processes, allowing them to very easily identify most critical messages and conversations. I explored and modeled the business domain, identifying user needs and proposing new, useful features. I designed the frontend architecture with an original philosophy, developed main components and also built the test infrastructure.

JavaScript, AngularJS, Angular2, Java EE

Analysis, design and development in a collaborative report webapp

January 2016 - May 2016 for United Nations World Food Programme

An application that allows multiple users to edit and review parts of a daily report to the company management, with strong emphasis on confidential informations, document workflow enforcement, collaboration and document history. I gathered business requirements, designed the frontend architecture and developed main components; I also built the test infrastructure.

JavaScript, Python, AngularJS, Django

Analysis, design and development in an email aggregation system

July 2015 – September 2015 for Lextel - Visura

Software that gathers email inboxes of several thousand users, with significant performance requirements, in order to analyze and classify them to support business processes of lawyers studies. It had to be robust in case of failure of the email providers. I studied how to meet client business needs and contributed to design a robust architecture; I also developed the core component.

Java, JavaScript, JEE, AngularJS

Analysis of a telco customer care webapp

June 2015 – July 2015 for Telecom Italia through Oracle

Critical analysis of a webapp for customer care, identifying architectural problems and maintainability issues. Corrections and best practices were provided, along with a performance monitoring tool. I analyzed and reviewed the code, wrote a report and built the monitoring tool.

JavaScript, AngularJS

Analysis of banking service webapp

November 2014 – January 2015 for UBI Banca through Oracle

Produced a document describing architectural and maintainability issues, in order to lower development costs. It also suggested strategies and modifications in order to improve software quality. I analyzed and reviewed the code, wrote a report and built the monitoring tool.

JavaScript, AngularJS

Analysis, design and development of a customer loyalty system

November 2013 – July 2014 for PayBay Networks, part of Qui Group

Multi-tenant, high performance platform for a loyalty program based on Visa and Mastercard transactions on a network of shops. The platform analyzed millions of transactions per day, computing revenues and bonuses based on complex business rules. I contributed in designing and developing new functionalities; based on my business understanding, I proposed a new model of the business rules and concepts, supporting high scalability.

Java, Spring MVC, Spring Batch

Analysis and design of a programmable workflow framework

July 2013 - November 2013 for Gruppo Mediobanca

An application used for definition of workflows in a human resources management software. Admin users could define workflows, with programmable steps and states, driven by regular user actions and roles. The engine was used for complex training and performance evaluation programs of the company. I contributed to define concepts and interface, based on the objectives of the future users.

Java, proprietary MVC framework

Development of a ticketing workflow engine

April 2013 – July 2013 for GTECH - Lottomatica

Software for issue tracking and ticketing for GTECH - Lottomatica game machine owners. Semi-automatic workflow driven by emails. It gathered tickets statistics for reports. I developed a new part of the automatic workflow.

Java, proprietary MVC framework

Analysis, design and development in a human Resources Training Management App

July 2012 – April 2013 for AssetData - Gi Group

Training module of a wide human resources management webapp. Lessons and materials management with reports and dashboards; complex workflow for training certification. I gathered requirements from users, designed the entire stack and developed main features.

Java, proprietary MVC framework

Analysis, design and development of the data integrity module in cloud service

September 2011 – May 2012 for HeyWare S.r.l. now part of InfoCert

"FileRock": cloud based software for files sharing between devices, similar to DropBox, based on company-owned patent for data integrity check. It assured data integrity through proprietary algorithms. It is now called "SecureDrive". I studied contributed to the design of the integrity module and developed its prototype.

Python, Amazon S3

Analysis, design and development of a human Resources Management tool

September 2008 – December 2008 for Eni S.p.a.

Desktop and web application for project budget and human resources management. Users needed to assign resources to projects and manage plans and reports according to strict

company regulations. I gathered the requirements from the business, then designed and developed a desktop version and a web version.

Java, Swing, Struts2

EDUCATION

Computer Engineering at “Università degli Studi Roma Tre”, Rome, Italy.

- master’s degree 105/110 in 2008
- bachelor’s degree 102/110 in 2012

LANGUAGES

Italian: mothertongue

English:

- Reading: proficient user
- Writing: basic user
- Speaking: basic user

TECHNICAL KNOWLEDGE

<p><i>Architectural principles and methodologies</i></p> <p>Domain Driven Design, Command Query Responsibility Segregation, Event Sourcing, Event driven architectures, Hexagonal architectures, common design patterns.</p> <p><i>Work methodologies</i></p> <p>agile principles, basic Scrum, Test driven development, Behavior driven development</p>	<p><i>Primary programming languages</i></p> <p>Java, Go, Scala, JavaScript, TypeScript, Python</p> <p><i>Other programming languages</i></p> <p>C#, C++, Lua</p> <p><i>Backend technologies, libraries, and protocols</i></p> <p>Java Enterprise Edition, EJB, Spring, JDO, JPA, Struts, Jodatime, Apache Commons, NodeJS, Akka, gob, rpc</p> <p><i>Frontend technologies</i></p> <p>Bootstrap, AngularJS, Angular 2, KnockoutJS</p>
<p><i>Testing tools</i></p> <p>JUnit, JBehave, Selenium, PyTest, KarmaJS, MochaJS, EasyMock, Mockito, Jasmine</p> <p><i>Mobile technologies</i></p> <p>Android, Cordova, Ionic</p> <p><i>Databases</i></p> <p>Redis, MySQL, Oracle Database, MS SQL Server, PostgreSQL, bolt</p>	<p><i>IDE</i></p> <p>IntelliJ Idea, Eclipse, NetBeans</p> <p><i>Versioning</i></p> <p>git, SVN, Mercurial</p> <p><i>Others</i></p> <p>LaTex, MS Word, Excel, PowerPoint, VirtualBox</p>