PERSONAL INFORMATION | **Alberto De Natale**

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Sex Male | Date of birth 05 December 1986 | Nationality Italian

PREFERRED JOB | **Software Developer**

WORK EXPERIENCE

25 September 2014 – today

Junior Software Developer
Mosaic Online Systems, Worthing (United Kingdom)

25 November 2013 – 29 August 2014

Junior Software Developer

PharmiWeb Solutions, Bracknell (United Kingdom)

PharmiWeb Solutions is a leading company in the pharmaceutical IT technologies named as one of the Top 100 Tech/Media companies in the UK (The Guardian, Tech Media Invest 100). I worked in a semi-AGILE context on the maintenance of existing DVAs (i.e. apply customer requests on CSS3/HTML5/js/jQuery projects) and the maintenance and development of back end applications and web applications.

- Communication was one of the primary concerns in my daily activity. I was requested to prefer face to face interaction to the written one, escalation of the problems to others developers to promptly react to issues using all team resources,
- to be able to analyse problems and individuate requirements before and after my work being committed,
- to be able to keep updated project managers and the other developers about possible delays,
- to make frequent meetings in order to keep tracked the development activity. to provide project management with the amount of time spent on each of my daily activity with a margin error of 10 minutes,
- to keep interaction positive with a "can-do" attitude,
- to produce readable and high quality software rather than documentation,
- to be able to keep tracked each request received during the day.
- I was requested to understand the javascript/jQuery framework adopted and how it interfaces with the existing html5 and CSS3 code and dynamically modifies it at runtime in order to fix bugs and apply customer amends.
- AJAX was involved in the process too.
- I worked on CSS3 animations and transitions.
- I worked on the company website setting it up from zero using Umbraco razor macros and configuring the installation.

Front-end keywords: CSS3, HTML5, Javascript, jQuery
Back-end keywords: C#, .NET/ASP.NET, Umbraco 6.2.1, Microsoft SQL Server 2012

21 June 2013 – 1 October 2013

Freelance Developer
Developer

I have worked with a leading company in retail IT technologies to a digital signature system and a Senior software analyst. I worked as free lancer developer from my home with periodical meetings with the project manager and the senior analyst involved in the project. The requests I had to commit were highly technical. I was involved in three tasks.

- The first task was the maintenance and improvement of an existing web application able to interfacing with the XYZMO frameworks with SOAP requests. The XYZMO framework consists of a client/server web application and a set of templates clients for different platforms (eg. HTML5/JS, iOS,

Android). The requirements were to improve the quality of the existing code and customize the creation of the pdf containing the signed receipt in order to apply some client amends. I had to use razor and different versions of the iText library in order to commit the requests.

- The second task was to customize an existing iOS template application in order to make it fit the requested client interface.
- The third task was to create a desktop application able to repeat the whole process mentioned as first task interfacing with a Wacom tablet and with the XYZMO framework plus it had to mirror the image seen on the Wacom tablet to a third desktop pc in order to allow the client to monitor the signature process. In doing that the desktop application had to capture images from a monitor and render them on a second one. The third task required the application to be configured with an external XML file (not the default .NET app.config file) and logging the entire process by using the apache log4net library.

First task keywords: C#,ASP.NET MVC 4, Razor, Visual studio, SOAP, XYZMO, iText, SQL Server
Second task keywords: iOS, objective-c
Third task keywords: C#, .NET, Wacom tablet, log4net.

16 June 2012 – 21 June 2013

Junior Software Developer

Innovery S.p.A., Rome (Italy)

Computer Security

I have worked for Innovery S.p.A., one of the leading company in the italian IT security market. I have often worked as only programmer on the project alternating the role of software developer to that project manager. In one year I have worked on 4 projects.

- The first project required to work at the customer offices (an important italian university) in order to take the existing identity management installation, maintaining it and improve it as by client requests. During six months working on the project I automated the identity provisioning and de-provisioning processes, created a unix bash scripts able to move ciphered passwords from an existing Oracle Database to another (changing the encoding), customizing the Identity Manager Interface (Waveset) in order to activate the existing connection with the Shibboleth Oracle database. As a password had been lost, I had to create a small java servlet able to intercept the communication flow between Identity Manager and client application in order to sniff it and reinstate the process responsible to listen for data changes and communicate them to the Identity Manager. Finally I had to create the glue code able to synchronize the identity manager (running on a unix server), a unix server (via ssh) and a windows server (running Active Directory, via TCL) with the final aim of creating and removing users folder and manage the access control to them. During the project I had to meet the client on a weekly basis in order to discuss the work done and the next developments. During my work I often had to modify the code directly on the production environment due to the emergency context I was working in.
- The second project required to set up a working project with the Hibernate and Spring frameworks and pass it to the developers. In doing that I had the opportunity to be introduced to how this two framework work and to the design patterns adopted.
- The third project required to study the PHP language and understanding the security vulnerabilities connected to it in order create the documentation required from a third company in order to secure their custom CMS. I also assisted and documented the work of a senior security consultant in securing the CMS after a headline media attack to the company.
- The fourth project required me to work for an important italian bank in order translate the existing code written in COBOL to the C language. In doing the task I explored memory pools and how to emulate object oriented behaviour with the C language and ODBC.

First Project Keywords: Java, Bash, Windows batch scripting, Waveset, TCL, XPRESS language, Oracle DB, OpenLDAP, Active Directory, Apache, Tomcat, Unix, DOS, Shibboleth
Second Project Keywords: Java, Hibernate, Spring, Eclipse, Oracle DB
Third Project Keywords: PHP, OWASP, SQL Injection, Cross-Site Scripting, OWASP PHP Security Cheat Sheet, NetBeans IDE
Fourth Project Keywords: C language, COBOL, ODBC

01 February 2012 – 13 June 2012

Junior Software Developer

Marsilli S.p.A., Milan (Italy)

Automotive

Marsilli is a world leader company in the design, development and production of coil winding technologies, coil winding motors, wire connections technologies and automation technologies.

- I was required to test and customize the software used to control the machines and to install them on the customer site. I have worked on two version of their controller, the first written in Small-C and the latter in a company custom language running on QNX, a unix version for automation control.

Keywords: Small C, QNX

01 August 2011 – 31 November 2011

Junior Software Developer

Internship for Forge Reply s.r.l., Milan (Italy)

Videogame industry

Forge Reply is a game small company based in Italy and is the the company were I had a three months internship as a first work experience during university

- My internship required to develop a software module responsible to track and update the character positions on the display on the basis of their current behaviour (eg. escape, seek). The behaviour had to be chosen on the basis of the path finding algorithm that was required to be implemented as well: A*.
- The second part of the project was focused on creating a Maya exporter in order to allow designers to produce xml code readable from the C++ engine. This was accomplished by using Maya APIs and Python. The exporter had the same role that is used with Photoshop when a design artwork is exported into an svg.

Keywords: C++, Visual Studio 2010, python, A*.

TRAINING

01 October 2013 – 01 December 2013

.NET Advanced Applications Development Using C#

City University, London (UK)

Delegates, Events, Asynchronous Method Calls, Threads, LINQ, WPF, XAML, WPF, WPF Classic Controls, WPF Window, WPF Pages and Navigation, Dependency Properties, Routed Events, Resources, Data Binding, Threading Model, InterOP, Attributes and Reflection, Web Services & Remoting, WCF, Distributed Systems, Basics of WCF, Contracts, Channels & Binding, Behaviours and Hosting.

01 October 2013 – 01 December 2013

ASP.NET: Web Applications with MVC and Entity Frameworks Using C#

City University, London (UK)

Management of state (Session, Viewstate),Introduction to SQL Datasource (working with data), Introduction to LINQ and Entity Frameworks, Using Entity Datasources and other controls with LINQ, Databinding techniques for Web Forms (Data Reader), Introduction to MVC - A first MVC application, Further MVC techniques (Scaffolding, Model first, Code first techniques), Security for Web Forms and MVC, Introduction to AJAX for ASP.NET (ScriptManagers), Introduction to Web Services and WCF

18th of November 2013

Java SE 7 Certified Programmer I (Exam 1Z0-803)

EDUCATION

01 August 2010 – 01 February 2011

Semester Abroad

Universidade Estadual de Campinas, Campinas (Brazil)

stochastic processes, nonlinear optimization, digital television

01 February 2009 – 01 February 2012	**Master's Degree in Computer Science**

Politecnico di Milano, Milan (Italy)

Oriented on artifical intelligence
"Algorithms on Strings in OpenCL for Many-Core Platforms"
89/110

01 September 2005 – 01 February 2009	**Bachelor's Degree in Computer Science**

Politecnico di Milano, Milan (Italy)

computer science, maths, physics, chemistry, thermodynamics, logic, signal, statistics, probability
93/110

10 September 2000 – 10 June 2005	**High School Diploma**

ITIS Liceo Scientifico Tecnologico Cartesio, Sesto San Giovanni (Italy)

Scientific disciplines, general culture
73/100

ACADEMIC PROJECTS

December 2011 – March 2012	**Algorithms on Strings in OpenCL for Many-Core Platforms**

Politecnico di Milano, Milan (Italy)
Parallel computation
Keywords: C, ST P2012.

June 2011 – January 2012	**Development of a videogame for windows mobile**

Politecnico di Milano, Milan (Italy)
Videogame industry
Keywords: C#, Visual Studio 2010, XNA.

February 2011 – June 2011	**Car tracking with a particle filter**

Politecnico di Milano, Milan (Italy)
Artificial Vision
Keywords: C++, xCode, unix, CMake.

February 2011 – June 2011	**Natural Language Parsing**

Politecnico di Milano, Milan (Italy)
Keywords: C, xCode, unix, CMake.

PERSONAL SKILLS

Mother tongue(s)	Italian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	

	TOEFL certificate			
Portuguese	B1	B1	B1	B1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient users

Job-related skills

A not exhaustive list of technologies which I have worked with:

Languages: Java, C, C++, Python, Objective-C, C#, XPress, PHP, Lisp, COBOL, HTML5, CSS3, XML, Jsp, Javascript, Ajax, jQuery, PASCAL

Frameworks/Api: Pyro, Spring, Hibernate, XNA, JNI, JMS, JNDI, Java SE, Java EE, JDBC, .NET, ASP.NET, iText, OpenCV, OpenCL, log4net

SQL Servers: Oracle, MySQL, Postgresql, MSSQL 2012

IDE: Xcode, Eclipse, Visual Studio2010/2012, NetBeans

Web/Application Server: Tomcat, Apache, IIS, Cassini

Version Control Applications: Subversion

Ldap server: Active Directory, OpenLDAP

Operative systems: QNX, iPhone OS, Android, Unix, Linux Windows, Mac OS

Compilers/build systems: Acse Compiler (Flex and Bison), CMake