

Vincenzo Russo

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Computer scientist and engineer, passionate senior developer and technical leader with strong knowledge of **OOP, AOP, Design Patterns**. With experience ranging from research in **Data Mining** and **AI**, to hands-on **Web** enterprise development, I have also come to enjoy **agile development process management, Scrum**, and **virtual working environments**. I trust I can add strong value to highly qualified teams working on Web, Social and Data technologies, and I enthusiastically believe in scientific research, knowledge sharing, and open source development.

Areas of interest and competence

Main: Web, Drupal, Software Engineering, Development Process Management, Agile, Scrum Coaching.

Others: Operating Systems, Data Mining, Machine Learning, UX, HCI.

Work experiences

Technical Consultant – Artetecha Ltd. (Self-employed)

15 Mar 2012 – Present

Delivering professional consultancy on Web, third-party integrations, Development Process Management, Agile Project Management, Dev Team Coaching, Best Practices. Specialising in Drupal and all its aspects. Providing services both on-site and remotely – **Clients:** Iris Digital, iTV

Co-founder and shareholder – Totalcup S.r.l., Naples, IT

01 Sep 2010 – Present

Co-founder and shareholder of this exciting new sport-oriented social platform – <http://totalcup.com>

Team Leader/Dev Manager – Code Enigma Ltd., London, UK

31 Oct 2011 – 15 Mar 2012

Team leader/Development Manager for this 100% virtual consultancy firm specialised design, development, hosting, support and training solutions based on cutting-edge Drupal and related technologies.

Senior Software Architect – The Economist Newspaper Ltd., London, UK

14 Jun 2010 – 28 Oct 2011

Senior member of the team (London branch) that migrated *economist.com* from Cold Fusion/Oracle to Drupal (Pressflow)/MySQL. Migration was accomplished along with critical functional and architectural improvements. Fully Agile Scrum-driven project; mission-critical, performance and scalability critical, business-critical project. Daily online liaison with our New York counterpart; *technical debt management*.

CMS Practice Manager – Ibuildings UK Ltd., London, UK

01 Jan 2010 – 01 Jun 2010

Technical Lead Engineer – Ibuildings UK Ltd., London, UK

01 Dec 2009 – 01 Jun 2010

Senior Software Engineer – Ibuildings UK Ltd., London, UK

03 Nov 2008 – 30 Nov 2009

Ibuildings is a PHP company focused on mission-critical, large scale web applications, with state-of-the-art technologies. As Senior Software Engineer, I focused on the complete application life-cycle via Continuous Integrations systems, Deployment tools, etc. As Tech Lead Engineer I was also responsible for the functional and technical specifications, web effort estimation, planning and designing, leading and coaching team members, preventing critical issues. As CMS Practice Manager, I organised and managed everything related to CMSs (*learning material, coding standards, continuous integration and multi-stage deployment solutions, developers coaching, application architecting, etc.*), with a primary focus on Drupal.

Technical Manager – Pulse S.a.s, Naples, IT

01 Jan 2007 – Dec 2008

A small and fresh company focused on the state-of-the-art of the web technologies, mixing them with expertise in other areas (such as HCI, Data Mining, Mobile technologies). Pulse also carried on some internal research projects for Web RAD and Enterprise CMSs. *Focus:* OO-PHP, PHP Frameworks, PHP CMSs (Drupal), MySQL, Web Services, Unit Testing, Java Enterprise, Design Patterns, Data Mining (Xapian, Vogoo, Lucene, etc.), etc.

Senior Developer – Incsub LLC, Melbourne, AU

Oct 2008 – Oct 2008

Incsub is a consultancy and development company that provide custom websites built around WordPress. *Focus:* OO-PHP, WordPress, MySQL, etc. *Roles:* Software Engineer and Developer (telecommute).

Machine Learning Researcher – University “Federico II”, Naples, IT

01 May 2008 – 31 Oct 2008

University “Federico II” of Naples is one of the most important Italian university. SoLCo is an applied research project that aims at bringing state-of-the-art information retrieval instruments to companies and



public offices into the local government. *Roles:* Machine learning researcher (clustering and classification of textual documents) and C++ developer.

Data Mining Researcher and Engineer – University “Federico II”, Naples, IT **15 Feb 2008 – 30 Sep 2008**

DAME (<http://voneural.na.infn.it> – formerly VONeural) is an applied research project that aims at developing a comprehensive state-of-the-art C++ framework for astrophysics data mining. *Roles:* Data mining researcher, software engineer and C++ developer.

Software Engineer and DB Architect – CINI ITeM Labs, Naples, IT **07 Feb 2006 – 31 Mar 2007**

CINI is the Italian Inter-university Consortium for Informatics. At ITeM Labs I was a Software Engineer. *Focus:* PHP, Drupal, MySQL, SOAP, Dokeos LMS, Linux systems.

Software Engineer and DB Architect – EFAEP, Brussels, BE / AISA, Milan, IT **2004 – 2005**

EFAEP is an Association of Environmental Experts from all over Europe and AISA is one of the Italian environmental association. I was in the ENEP¹ (formerly DBEP) team that created a CMS from scratch to manage a database of environmental professionals curricula. *Roles:* Software Engineer, DB engineer and administrator (PostgreSQL), PHP, SQL and PL/pgSQL developer, Linux system administrator.

Web Software Engineer and LAMP developer freelance, Self-employed **2000 – 2005**
Delphi developer freelance, Self-employed **1999 – 2000**

Education and Training

Master Degree in Computer Science² **2000 – 2007**

I graduated cum laude³ from the University of Naples⁴ “Federico II” with a master’s thesis entitled *State of the art clustering techniques – Support Vector Methods and Minimum Bregman Information Principle*.⁵

Network specialist (GARR-B project) **27 May 2002 – 11 Dec 2002**

Training course by GARR⁶ consortium: three months of theory and three of practice about: network protocols internals, structured wiring, security, routing and QoS, Unix/Linux and Windows sysadmin, LAN setup, Web basics and development.

Object Oriented Programming and Databases **01 May 2000 – 31 Jul 2000**

OOP paradigm, client-server application development with Borland Delphi 6, CGI development with Borland Delphi 6, Database (Paradox) design and programming. Web development.

Skills and competences

Scrum-driven development management. Full exposure to advanced Scrum-driven projects; ability to manage the technical debt via Scrum; ability to improve team performance by applying Scrum concepts; deep understanding of the development processes and tools required for a better exploitation of the Scrum framework and for an improved technical debt management.

Software engineering and Technical Leadership. Object Oriented Design and Design Patterns, Functional Design, Aspect Oriented Design. Experience with both classical (Waterfall, Spiral, etc.) and modern (Agile, XP, Scrum, TDD, etc.) software development methodologies. Also experience with popular SCMs (SVN, CVS, Git, Bazaar), documentation generators (Doxygen, Javadoc, etc.). Experienced at tech-leading small teams (3 to 4 people). Strongly familiar with Continuous Integration and Multi-stage Deployment.

Advanced Web Engineering. 12+ years of experience. Always up to date on modern technologies (AJAX, Web services, RIAs, etc.) and open standards (HTML 5, CSS3, etc.).

¹ See <http://www.environmentalprofessionals.eu>.

² For Italian readers: *Laurea quinquennale (in Informatica) secondo le modalità precedenti l'entrata in vigore del D.M. 509/99, equiparata alla Laurea magistrale ai sensi del D.M. 270/2004.*

³ “With Honours”.

⁴ See <http://www.unina.it> (Italian) and/or <http://www.international.unina.it/> (English).

⁵ The thesis is available for download at <http://thesis.neminis.org/2008/04/03/thesis-and-talk/>.

⁶ See <http://www.garr.it/garr-b-home-engl.shtml> for more details.



Advanced (OO)-PHP development. 12+ years of experience in PHP/OOPHP development, both from scratch and on top of frameworks. Very good knowledge of well known PHP-based platforms and libraries: Drupal, WordPress, WordPress Mu, Pear. Other platforms: Yii, Symfony, CakePHP, Zend Framework, ez Components.

Advanced DBs. 9+ years of experience in designing and programming databases (MySQL, PostgreSQL). Extensive experience with SQL, PL/pgSQL, stored procedure, views, etc. Minor experience with Paradox, Oracle and PL/SQL.

Scalability and Performance of Web Applications. Experience with both back and front end performance issues. Experience with Web Applications in the Cloud, front-end caching via Varnish, back-end caching via Memcached and Redis, profiling via XDebug and XHProf, PHP performance enhancement via APC; many experiments with PHP compilers like HipHop or PHC; exposure to multi-master/multi-slave MySQL setups.

Data mining, Machine Learning, Natural Language Processing. ~2-3 years of experience with data mining and machine learning algorithms, with special focus on unsupervised techniques ([co-]clustering, missing data values handling, collaborative filtering, etc.); experience with Named Entity Retrieval and Opinion Mining; good knowledge of STL, Boost Libraries, LIBSVM, SVM-Light, and minor experience with Shogun library used for scientific software development.

System administration. 5+ years of experience with Linux system administration in medium size environments. Also managed *Mac OS X server* and *Windows server*. Extensive experience with Bash shell programming.

Minor skills. C++, Delphi, Perl, Python, Apple Cocoa and Cocoa Touch (iPhone/iPod-Touch), PhoneGap/Cordova, UX enhancement of web applications.

Languages⁷

Neapolitan: Mother tongue; **Italian:** Mother tongue; **English:** Proficient (C1); **Spanish:** Basic (A1).

Publications and Softwares

V. Russo, *State-of-the-art clustering techniques: Support Vector Methods and Minimum Bregman Information Principle*, Master's Thesis, Università degli studi di Napoli "Federico II", Corso Umberto I, 80100 Naples, Italy, February 2008.

V. Russo, *Clustering and classification in Information Retrieval: from standard techniques towards the state of the art*, Technical Report, Università degli studi di Napoli "Federico II", Corso Umberto I, 80100 Naples, Italy, September 2008.

V. Russo, *LIBSVM Plus*, Software, <http://neminis.org/software/libsvm-plus/>

V. Russo, *Support Vector Clustering*, Software, <http://neminis.org/software/support-vector-clustering>

References

Available upon request.

For italian readers only

Dati personali. Esprimo il consenso, ai sensi della legge 196/2003, per il trattamento dei dati personali;
Servizio di leva. Da non sostenere, ai sensi della legge 226/2004, causa slittamento in classe 1986;
Codice fiscale. RSS VCN 82B06 F839 F.

⁷ Common European Framework of Reference (CEF) levels (for more details see <http://goo.gl/Kht0s>)