Curriculum Vitae

Personal Information

First Name(s) / Surname(s)	**Giacomo Piva**
Nationality	Italian
Date of birth	July 11, 1981

Work experience

Dates	Since March 2011
Occupation	IT Consultant and freelance Web developer
Main activities and projects	· Analyst and Workflow Designer; · Ruby on Rails Web application development;
Main customers	Mediatel S.r.l. – Ferrara Concept S.n.c – Cornate d'Adda (MB). PayPerSocial L.t.d. – London UK;
Type of business or sector	IT
Dates	Since April 2009
Occupation	iOS Developer
Main activities and projects	Mobile application developer for Apple iOS devices.
Main published Apps	· Fede Card (2014); · Prontocapelli (2014) · Rimmaginaria (2013); · Donaco (2012); · KKeeper (2009);
Type of business or sector	IT
Dates	December 2008, February 2011
Occupation	Analyst and software developer
Main activities	Software development for multi-spectral satellite imagery analysis for European Space Agency. · Development of a Kiemsted Tourist Algorithm from satellite images data; · Radiometric calibration software for EOS Aster and Digital Globe World-View2 sensors; · 3PG(S) model implementation for biomass estimation software from satellite data information; · Software integration on ESA's KEO system (www.keo-karisma.esrin.esa.int). · Land cover change analysis software on multi-temporal data; · Cloud cover detection and discrimination software on very high resolution data without information on temperature; · Land cover detection software on multi-spectral satellite data.
Name and address of employer	M.E.E.O. S.r.l. - 9, Via Saragat, 44122 Ferrara, Italy
Type of business or sector	IT
Dates	April 2008, October 2008
Occupation	University apprenticeship
Main activities	Feasibility study and implementation of a four-dimensional search system for a large satellite imagery database based on PostgreSQL database.
Name and address of employer	M.E.E.O. S.r.l. - 9, Via Saragat, 44122 Ferrara, Italy.
Type of business or sector	IT

Teaching activities	A.Y. 2014/2015 , 2013/2014 and 2012/2013:
	· Part time Professor for the "Programming and Lab" class for the Computer Science degree at Università degli Studi di Ferrara. Ferrara, Italy;
	A.Y. 2010/2011:
	· Part time Professor for the "Web Technologies" class for the Computer Science degree at Università degli Studi di Ferrara. Ferrara, Italy;
	A.Y. 2007/2008:
	· Tutor for the "Algorithms and data structures" class for the Computer Science degree at Università degli Studi di Ferrara. Ferrara, Italy
	· Tutor for the "Algorithms and data structures" class for the Math degree at Università degli Studi di Ferrara. Ferrara, Italy
Awards	2013
	• My *Donaco* App mobile, developed as independent developer, was finalist App at **Smau Mob App Awards Bologna 2013** contest in the "Community" category.
Pubblications	1. Natali S., G. Piva, A. Beccati: S. D'Elia, A. Della Vecchia, and M. Iapaolo: 2009: "Automatic Preliminary Classification For Efficient Biophysical Parameters Extraction", Workshop on the Retrieval of Geophysical Variables Using High Spatial Resolution Optical Imagery, 14 - 15 October 2009, ESA/ESTEC, Noordwijk, The Netherlands.
	2. Natali S., G. Piva, and S. Mantovani, 2009: "A spectral and object-based cloud detection system for Very High Resolution satellite data". Workshop on the Retrieval of Geophysical Variables Using High Spatial Resolution Optical Imagery, 14 - 15 October 2009, ESA/ESTEC, Noordwijk, The Netherlands.
	3. Natali S., G. Piva, and S. Mantovani, 2009: "A spectral and object-based cloud detection system for Very High Resolution satellite data". ESA-EUSC-JRC 2009: Image Information Mining: automation of geospatial intelligence from Earth Observation Workshop, 3 - 5 November 2009, EUSC, Torrejon air base - Madrid, Spain.

Education and training

Dates	November 2008
Title of qualification awarded	Second level degree in Computer Science. Rating: 101/110
Title of the thesis	Customised Catalogue and Search System For a Large Satellite Imagery Database
Subject of the thesis	Feasibility study and implementation of a four-dimensional search system for a large satellite imagery database based on PostgreSQL database.
Name and type of organisation providing education and training	Università degli Studi di Ferrara. Italy
Dates	March 2006
Title of qualification awarded	First level degree in Computer Science. Rating: 94/110
Principal subjects/occupational skills covered	Networks and distributed systems
Title of the thesis	Single Sign-on authentication based on biometric identification system
Subject of the thesis	Use of strong authentication method based on biometric identification
Name and type of organisation providing education and training	Università degli Studi di Ferrara
Dates	July 2000
Title of qualification awarded	High School Diploma, Computer Science specialization
Name and type of organisation providing education and training	I.T.I.S "N. Copernico", Ferrara, Italy
Level in national or international classification	High school

Personal skills and competences	

| Main personal skills and competences | **Programming languages**
· ANSI C, C++, Objective-C 2.0, Ruby.

Web development skills
· HTML5, CSS3.
· Ruby on Rails web application development;
· Drupal CMS platform development;
· Magento CMS platform ecommerce development;

Mobile development skills
· Apple iPhone application development (iOS) in Objective-C 2.0 and Coca Touch framework;

Detailed Satellite data competence
· Satellite image handling through GDAL library- www.gdal.org;
· Basic knowledge of GRASS modules and environment – http://grass.osgeo.org;
· Advanced satellite image analysis through ITT Envi software http://www.ittvis.com;
· Advanced knowledge of KEO system, used by ESA (European Space Agency) for software distribution – www.keo-karisma.esrin.esa.int.

Other software development competence
· XML standard and LibXML2 library;

Network skills
· Design of computer networks;
· Hardware and software of cable computer netoworks and WiFi technology;

Database skills
· Design relational database and Geospatial database with PostgreSQL and PostGIS.
· Design of non relational database based application with Redis (http://www.redis.io);

Multiprogramming skills
· Distribute programming and HPC programming;
· Programming on CELL BE processor. |

Mother tongue(s) Italian

Other language(s)
Self-assessment
European level (*)
English

	Understanding			Speaking			Writing
	Listening		Reading	Spoken interaction		Spoken production	
	B1		C2	B2		B1	C1

(*) Common European Framework of Reference for Languages

Luogo e data: Portomaggiore,19/08/14

Firma: