Tommaso **Patrizi**

SOFTWARE ENGINEER · SECURITY EXPERT

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"Be the change that you want to see in the world."

Education

Istituto San Zeno
Verona, Italy

MCT CERTIFICATION
Sep. 2000 - Feb. 2001

- MCT Certification
- MCSE Certification Windows
- MCDBA Certification SQL/Server

Cambridge Institute
Rome, Italy

PROFICIENCY CERTIFICATION
Sep. 1999

- Mothertongue Level Certification

Università degli Studi di Roma 'La Sapienza'
Rome, Italy

LAW DEGREE
Sept. 1993 - Jul. 1999

- Interested in International Principles of Private Law I prepared a thesis on England Arbitration Act (private international law).

Liceo Scientifico G. Galilei
Terni, Italy

DIPLOMA
Sept. 1988 - Jul. 1993

- Informatics Sperimental Class

Skills

DevOps	Docker, Semaphore, Heroku
Back-end	Rails, Phoenix, REST API
Front-end	HTML5, LESS, SASS
Programming	Ruby, Elixir
Data Analisys	R
GIS	PostGIS, KML, ShapeFile
DataBase	PostgreSQL, SQL Server, MySql
Languages	Italian, English

Experience

Populi, Ltd.
Rome, Italy

SENIOR SOFTWARE DEVELOPER
Jan. 2018 - Dec. 2019

- Designed, developed and tested a Rails event scheduling and booking system with an integrated marketplace, a marketplace api to be integrated in mobile apps, integration with several external systems (Viator, Get Your Guide, Globol, Rezdy)
- Developed an API integrator in Elixir and Phoenix for major tourism portals (Viator, Get Your Guide, Rezdy, TourCMS, Bokun etc.)
- Designed and developed an electronic invoicing system for a large internal app managing thousands of monthly invoices, credit notes, refunds

ASTRAL S.p.A.
Rome, Italy

PROJECT MANAGER & SOFTWARE ENGINEER
Dec. 2017 - Feb. 2018

- Used Engineering Study as Business Requirents and designed and developed an internal software to show surveyed road deteriorations.
- Developed a surveying alphabet to ease surveyor's job.
- Added deterioration feature to existing road survey company software.
- Added ShapeFile exports subdivided by lane of all the road deteriorations.
- Services deployed through Docker.

NearIT
Bergamo, Italy

MICROSERVICES DEVELOPER
Nov. 2017 - Feb. 2018

- Developing features for backend microservices using ruby to call AWS Lambda functions written in python. Developing features for go microservices.

Makeplan S.a.s.   *Rome, Italy*
PROJECT MANAGER & DEVOPS & SENIOR DEVELOPER   *Jul. 2015 - Dec. 2017*

- Architecture a major refactoring of a monolithic Rails app into microservices that can easily be deployed in the cloud.
- Develop the ruby client to connect and communicate with OrientDB.
- Develop a multitenant ruby API infrastructure through Json Web Token authentication and authorization.
- Choose technology and design a web based CAD application designed to be a replacement fo AutoCAD allowing imports from DWGs and using the same keyboard shortcuts for a seamless transition experience.

Dipartimento di Ingegneria civile, edile e ambientale - Università di Roma "La Sapienza"   *Rome, Italy*
DEVELOPER FOR ACTIVITY DICEA14PR098   *Dec. 2014 - Jun. 2015*

- Won a call for tender with University of Rome "La Sapienza".
- Offer the needed IT support to develop a real time dynamic photogrammetric technology platform for qualification, management and monitoring of airfields' pavimentations and for reducing the risk of FOD (Foreign Object Damage) presence.

Progetti e Servizi S.r.l.   *Rome, Italy*
PROJECT MANAGER, SYSTEM ADMINISTRATOR AND DEVELOPER   *Aug. 2014 - Sep. 2014*

- Plan, implement and deploy a company file sharing application like dropbox.
- The application allow for file sharing across geographically distributed sites through the use of owncloud version 7.
- Data is safely distributed and replicated through a set of glusterfs distributed and replicated volumes.
- Requests to owncloud are proxied through HAProxy and terminate in a nginx ssl enabled server.

Progetti e Servizi S.r.l.   *Rome, Italy*
PROJECT MANAGER, SYSTEM ADMINISTRATOR AND DEVELOPER   *Jan. 2014 - Jul. 2014*

- Research project to plan, implement and deploy a private cloud.
- Implemented a docker based private cloud with service discovery for high availability and scaling.
- Internal Rails 4 application modified and deployed on the private cloud backed by a PostgreSQL cluster.
- Requests to owncloud are proxied through HAProxy and terminate in a nginx ssl enabled server.
- Designed and developed an internal tool for reporting crash test activities.

    SVG drawing of crash test dynamics
    PDF generation with digital signature of all needed parties

Progetti e Servizi S.r.l.   *Rome, Italy*
PROJECT MANAGER AND DEVELOPER   *Jan. 2013 - Dec. 2013*

- Research project to create and visualize an algorithm for Road Protection Scores and Star Ratings suitable for italian roads.
- Identified road indicators that can affect road safety.
- Tested indicators model with some italian roads.
- Designed, developed and deployed a rails/google maps app to calculate RAPP scores and Star Ratings for italian roads.
- Integrated into GeoMap app developed for the same organization.

Progetti e Servizi S.r.l.   *Rome, Italy*
PROJECT MANAGER AND DEVELOPER   *Jun. 2012 - Dec. 2012*

- Designed and developed a real time dashboard in Visual Basic .NET for road surveying vehicle.
- The dashboard collects data from a GigE camera, a road profile grabber with two lasers and two accelerometers and an IMU unit.
- Data Acquisition is made through National Instruments NIDaq.
- The dashboard simplifies the acquisition and recording of data using different kind of graphs to show data series.
- The dashboard was in production on two high efficiency vehicles.

Progetti e Servizi S.r.l.   *Rome, Italy*
SYSTEMS ADMINISTRATOR   *Jan. 2012 - May 2012*

- Planned, implemented and deployed virtualized MAIS (Massive Array of Inexpensive Servers) to support business processes.
- The server's array is composed of HP Microservers with vSphere 5 virtualization.
- Managed services: Firewalling/VPN, Fileserver with TimeMachine like features, Git server, Mail Server, DNS, HAProxy, GlusterFS.

Progetti e Servizi S.r.l.   *Rome, Italy*
PROJECT MANAGER AND DEVELOPER   *Jan. 2011 - Dec. 2011*

- Designed, developed and deployed a full stack rails 3 app with google earth plugin integration called GeoMap.
- App automatically generates kml files for app models which are read into google earth and displayed accordingly.
- App has an administrative dashboard which aggregates and displays data through d3.js and an administrative backend.
- The application is deployed into two companies and is used to plan street maintaining.
- Designed, developed and deployed a ruby script to generate acoustic KMZ maps with coordinates conversion.
- Gis data manipulation and translation (DXF, SHP, KML, XLS).

MSEmploy
Paris, Fance

FOUNDER AND MEMBER OF THE BOARD
Jun. 2007 - Dec. 2010

- Planning and following website development team to build a job board for Microsoft Professionals (actually www.msemploy.com).
- Got specifications from pre existing ASP web app and its developer.
- Checked website specifications with development team and stakeholders.
- Followed development team on behalf of the stakeholders.
- Tested website.

PCSNET S.r.l.
Rome, Italy

CHIEF TECHNOLOGY OFFICER
Jan. 2003 - Dec. 2014

- Network Management: built local domain, forum and sharepoint collaboration site with Microsoft Small Business 2003.
- Implemented new functionalities on existing C# Web Site and Managed content update.
- Managed International Partner Development: part of Microsoft Learning Advisory Board for 18 months with objective to report and advice on learning needs and market.
- Migrated existing website to new Joomla framework and planned, implemented and deployed SEO optimization.

PCSNET S.r.l.
Rome, Italy

MICROSOFT CERTIFIED TRAINER
Feb. 2001 - Dec. 2002

- Classroom training on Microsoft and Linux technologies.
- MOC 2274 - Managing a Microsoft Windows Server 2003 Environment.
- MOC 2275 - Maintaining a Microsoft Windows Server 2003 Environment.
- MOC 2276 - Implementing a Microsoft Windows Server 2003 Network Infrastructure: Network Hosts.
- MOC 2277 - Implementing, Managing, and Maintaining a Microsoft Windows Server 2003 Network Infrastructure: Network Services.
- MOC 2823 - Implementing and Administering Security in a Microsoft Windows Server 2003 Network.
- LPI Linux Essentials.