

Tommaso Patrizi

SOFTWARE ENGINEER · SECURITY EXPERT

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“The essence of profound insight is simplicity.”

Education

Istituto San Zeno

MCT CERTIFICATION

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

Verona, Italy

Sep. 2000 - Feb. 2001

Cambridge Institute

PROFICIENCY CERTIFICATION

- Mother tongue Level Certification

Rome, Italy

Sep. 1999

Università degli Studi di Roma 'La Sapienza'

LAW DEGREE

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

Rome, Italy

Sept. 1993 - Jul. 1999

Liceo Scientifico G. Galilei

DIPLOMA

- Informatics Spermental Class

Terni, Italy

Sept. 1988 - Jul. 1993

Skills

DevOps Docker, Semaphore, Heroku

Back-end Rails, Phoenix, REST API

Front-end HTML5, LESS, SASS

Programming Ruby, Elixir

Data Analysis R

GIS PostGIS, KML, ShapeFile

DataBase PostgreSQL, SQL Server, MySql

Languages Italian, English

Experience

Populi, Ltd.

SENIOR SOFTWARE DEVELOPER

- 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

Rome, Italy

Jan. 2018 - Dec. 2019

ASTRAL S.p.A.

PROJECT MANAGER & SOFTWARE ENGINEER

- Used Engineering Study as Business Requirements 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.

Rome, Italy

Dec. 2017 - Feb. 2018

NearIT

MICROSERVICES DEVELOPER

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

Bergamo, Italy

Nov. 2017 - Feb. 2018

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' pavements 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, France

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.