Antonio Gianfreda

Cloud Architect /
NFV Engineer

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Executive Summary

Determined and flexible **NFV engineer** with mature experience in cloud infrastructure architecture for **SDN/NFV** and ability to work to deadlines while demonstrating a track record for innovation and creativity. Proficient in **designing, implementing and managing** Telco Cloud solutions with open source based products. Consistently demonstrated strong skills in VIM solution design and maintenance, including **evaluation and testing of innovative solutions**. Software development skills expressed mainly on software defined data center activities involving HW management and IT automation.

General backgrounds comprise experience in **carrier-grade cloud application requirements**, mobile and fixed networks, software development, management of Linux operating systems.

Good industry knowledge with a good understanding of current and future technologies (5G, Internet-of-things (IoT), NFV, SDN and OSS/BSS) and business challenges and directions.

Availability to travel nationally and internationally.

Experience

Dec 2014 — Now
Cloud Architect / NFV Engineer, *TIM S.p.A.*, Turin, Italy.
Cloud infrastructure designer and solution architect for Network Function Virtualization (NFV), at TIM's NFV engineering department. Mainly involved in VIM solution design and maintenance. Technical specialities include the administration of **OpenStack** based infrastructures, managing the technical and business challenges related to **NFV deployments**.
Currency of cloud knowledge; deep understanding and knowledge of cloud platforms also on latest features, functionality and maturity. Plan to use established and new architectures in order to create tactical plans for cloud deployments using legacy and emerging compute, network and storage options.
Ability to work with partners (networking/ storage/ platform vendors) to create a custom design that can achieve business goals remaining on budget.
Hands-on experience with VNF onboarding, managing technical and procedural challenges arising from the introduction of innovative solutions.

Jan 2011 — Nov 2014
System integrator / Application developer, *Consoft Sistemi S.p.A.*, Turin, Italy.
Activities performed on behalf of the client TIM in the TIMLab laboratories.
Jan 2013 – Nov 2014
Cloud system implementation based on the open source OpenStack and Cloudstack platforms.
Test and benchmark on Cloudify PaaS platform integrated with different cloud providers (VMWare vCD, Openstack, Cloudstack, BYON).
Nov 2011 – Dec 2012
Application development for cloud services management and provisioning (Javascript – Java technology).
Jan 2011 – Oct 2012
Application development on behalf of the Italia 150 Committee for Totem and phone devices.

Jan 2004	**Application developer / Web Designer**, *Technical Studio S.r.l.* , Turin, Italy.
Oct 2008	Internet based app development - part time job while studying Telecommunication Engineering.
Feb 2006	**First Level Helpdesk**, *Divis.it S.r.l.*, Turin, Italy.
Mar 2006	Problem-solving activities during the Turin 2006 Olympics - full time job while studying Telecommunication Engineering.

▬ Education

Apr 2022	**Executive Master in Business Administration**, *SAA School of Management Turin*.
exp.Dec 2023	Management, Making money, Toward Frontier 5.0, Customer Centricity, People Enhancement
Jan 2012	**Post-graduate master degree in Cloud Computing and Software Services**, *University*
Dec 2013	*of Turin*.
	Cloud Computing, Virtualization, NoSQL DBs, OpenStack, Cloudstack
Mar 2009	**Master of Science degree in Telecommunication Engineering** , *Polytechnic University*
Nov 2010	*of Turin*.
	Telecommunications, Programming - Courses and exams completely in English.
	Period of study and final thesis in Madrid; activities conducted mainly in English and Spanish.

▬ Languages

Italian	Native Language	
English	Excellent proficiency	*C1**
Spanish	Excellent proficiency	*C1**
	* Common European Framework of Reference for Languages	

▬ Certifications

Google Cloud Certified - Professional Cloud Architect
Design, develop and manage robust, secure, scalable, HA solutions on GCP to drive business objectives.
○ Verify GCP Certified Professional
Red Hat Certified – Red Hat Certified System Administrator In Red Hat OpenStack
Building and managing Red Hat OpenStack Platform v10 cloud infrastructures.
○ Verify Red Hat Certified Professional

▬ Courses

Technical

○ **Cloud Architecture and Engineering with Google Cloud**
MOOC on Coursera
Main topics: Google Cloud Infrastructure core services
○ **Site Reliability Engineering: Measuring and Managing Reliability**
MOOC on Coursera
Main topics: Service Level Objectives, Service Level Indicators, Reliability and Error Budgets
○ **Red Hat OpenStack Administration III**
Advanced networking in OpenStack - see Red Hat Certificate
Main topics: NFV, SDN, DPDK, SR-IOV, Advanced Tuning
○ **Georgia Tech - MOOC**
Software Defined Networks (SDN) - see Statement of Accomplishment
Main topics: SDN principles, Mininet, Python, POX Controller, Pyretic

Soft Skills

- ○ Member since Jan 2019 of the executive commettee of **Toastmasters Torino Club**
  Main objectives: Public speaking and leadership development

Skills

- ○ *Project Management:* Start, Planning, Control, Risks
- ○ *NFV:* ETSI **NFV architecture** and related initiatives
- ○ *Cloud Computing:* **OpenStack**, Cloudstack, VMware
- ○ *Virtualization:* KVM, VMWare ESXi, Oracle Virtual Box, Xen
- ○ *Containers/Containers Platforms:* **Docker**, Openshift, Kubernetes
- ○ *Software defined storage:* **Ceph**, ScaleIO/PowerFlex
- ○ *Software defined network:* OpenDayLight, POX, Ryu, Floodlight, Mininet
- ○ *Operating Systems:* Linux and Unix-Like; MS Windows
- ○ *Automation:* **Ansible**, Puppet, Chef
- ○ *Programming Languages and Technologies:* **Python**; Java; JavaScript (jQuery); PHP; C; C++; Visual Basic; **SQL**; CSS; HTML; XHTML; XML; XSL; UML; Web Usability and Accessibility
- ○ *Revision Control Systems:* **Git**, SVN
- ○ *Web Servers:* **Apache**, IIS, Nginx
- ○ *Databases:* **MySQL**, MS Access, SQL Server, Cassandra, **MongoDB**
- ○ *Other Software Applications:* **MS Office**, OpenOffice, Matlab, Adobe Photoshop, Corel Graphic Suite, Gimp
- ○ *Network:* Good knowledge of core **network components** (switches, routers) and related protocols.

Other

Full clean Italian driving license B from 2005
Full clean Italian boat license from 2016
During my high school studies I was selected for a **working experience** of three months in Sweden; students with the best skills and grade were selected. I worked in:
- **Ericsson**: control activities, function/quality audit main boards 3G antennas, troubleshooting activities through hardware testing tools like meters and oscilloscopes.
- **ABB**: development and testing of software products for motion control of welding robots. Control activities, software debug and hardware verification of robots operations.
- **Josam**: software development for the calibration of trucks axles using laser technology and Bluetooth communication.

Interests and Activities

A passion for math, reading (especially non-fiction books) and cooking. I like swimming, snowboarding, playing padel and dancing salsa and bachata.
I am a member of Toastmasters International (public speaking and leadership development) and an executive committee member of Toastmasters Torino Club (Vice President Public Relationship 2019, President 2020, Vice President Membership 2021, Vice president Education 2024). Server as district officer (Area Director A1) in 2022.