



Carlo Palmieri

DATE OF BIRTH:
17/05/1983

CONTACT

Nationality: Italian

Gender: Male

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WORK EXPERIENCE

01/08/2021 – CURRENT – Naples, Italy

Software Quality Engineer

Red Hat Italy

- Develop automation frameworks and scripts
- Participate in the test planning and product planning processes
- Guide junior quality engineers
- Conduct new feature research and design test cases
- Carry out manual tests and deliver clear status for testing areas in a timely manner
- Document and advocate the resolution of new bugs with developers
- Communicate with other Red Hat's quality engineers and developers

Technologies involved: Python, Bash, Red Hat Ansible Automation Platform, Red Hat Openshift Container Platform

<https://www.redhat.com> / Milan, Italy

10/12/2018 – 31/07/2021 – Naples, Italy

Software Maintenance Engineer

Red Hat Italy

- Investigate, troubleshoot and reproduce product issues for the various client and server-side frameworks related to the Red Hat 3scale solution
- Serve as the expert on how to apply Red Hat 3scale to enable customers to open, secure, distribute and monetize their APIs
- Own customer-facing support cases and provide outstanding customer service
- Actively contribute to Red Hat 3scale code base

Technologies involved: Api, Lua, Openshift, Docker, Ruby, 3scale

<http://www.redhat.com> / Milan, Italy

01/05/2016 – 09/12/2018

Software Engineer

GiPlanet SPA

Design and develop of the Company's management systems. The aim of this project is to migrate the old system to a more powerful opensource software based on Odoo.

ODOO (former OpenERP) is an ERP/CRM written in Python, it is extensible and pluggable.

The software needs to control the entire supply chain for the products and services sold by the company. It will provide user friendly interfaces to create catalogues, expose ecommerce multiwebsite based on events, make to order products.

The application in running in cloud on AWS and the ODOO platform was modified to store the attachment for the records on Amazon S3 so that the request for binary file from exposed website will directed to Amazon.

Odoo serve as ORM and ERP System, on top of this are built new modules, interfaces and functionalities to meet client requirements.

The project started using ODOO v8 then evolved to ODOO v11 passing through v9 and v10.

My main tasks are:

- define formal requirement and task
- spawn tasks amongst the team
- check code quality
- maintain the repositories

Technologies involved: Odoo, Python (2.7,3.6), Amazon S3, Postgres 9.3, jQuery, d3js, Bootstrap

Piove di Sacco (PD), Italy

07/03/2016 - 09/12/2018

Software Engineer

SyncLab SRL

Consultant software engineer for the projects:

- giplanet
- Madonna delle Grazie

Naples, Italy

01/02/2015 - 29/02/2016

Lead Software Engineer

University of Naples "Parthenope"

Integration and develop of the Split Driver Framework GvirtuS (<https://bitbucket.org/montella/gvirtus-devel>). The software is written in C++ and aim to deliver transparent virtualization of third party libraries. As of today it can provide virtualization of Cuda Realtime API, Cuda Driver API and openCL API. The software has a plugin architecture so it is independent from architecture, communication channel and the target of virtualization.

Technologies involved: C/C++, Split Driver Model, Virtualization Technologies, CUDA, OpenCL, Linux, GCC, Make

Naples, Italy

21/10/2013 - 20/01/2015

Full Stack Developer

University of Naples "Parthenope"

Design and develop of a web portal based on the Drupal CMS to expose the data produced by CCMMA (<http://meteo.uniparthenope.it>). The web-app has a MVC architecture so that it can be easily ported to Android or IOS. The backend is written in Python and expose a RESTful API that can be freely consumed. The backend make use of the Bottle framework and it is served through Apache web server. The frontend is written in php and make use of the Drupal api. The frontend take advantage of the latest technologies for web based application, jQuery/jQuery UI, leaflet (for map renders), d3js and google charts. Porting of the weather forecast chain from PHP to Python.

Technologies involved: Python 2, PHP, Drupal, Bottle, Apache, leaflet, jQuery, googlecharts, d3js

Education / <http://www.uniparthenope.it> / Via Acton, 38, 80100, Naples, Italy

01/02/2010 - 20/10/2013

Intern

Department of Applied Science - Università Degli Studi di Napoli Parthenope

Design and deploy of a HPC Cluster Infrastructure. The cluster has been equipped with the fullstack needed to host HPC application: Ubuntu OS, DHCP server, NFS filesystem, NIS auth service, Torque batch scheduler, OpenMP, MPICH2, CUDA. The cluster has been tuned to achieve the best

network and computing performances.
Installation and tuning of a private Cloud Infrastructure using eucalyptus cloud and Open Nebula.

Volunteer contributor @ GvirtuS.

Founder and System Administrator @ <http://students.uniparthenope.it>
<http://www.uniparthenope.it> / Centro Direzionale di Napoli, 80100, Napoli, Italy

14/07/2012 - 14/10/2012

Intern

Nec Laboratories America

Design of a user level caching layer on Xeon-Phi coprocessors. The software was written in plain C and it provided a Memcached-like syntax.

Technologies involved: C, Memcached, Xeon-PHI, parallelization, multi-thread

<http://www.nec-labs.com> / 4, Independence Way, 08540, Princeton, New Jersey, United States

14/07/2011 - 14/10/2011

Intern

Nec Laboratories America

Design and develop of a middle-ware layer for high throughput enterprise workloads in private and public clouds. This software has been written in JAVA. It is capable to automatically deploy HPC clusters in private and public clouds. It take care of the entire life cycle of the virtual machines in order to maximize the throughput of the current workload and minimize the overhead due to the cloud environment. The software provides to the user the best suitable virtual machine.

Technologies involved: Java, AWS, Eucalyptus, OpenNebula, parallelization, multi-thread

<http://www.nec-labs.com> / 4, Independence Way, 08540, Princeton, New Jersey, United States

EDUCATION AND TRAINING

21/10/2006 - 21/02/2013 - Napoli, Italy

Bachelor's Degree (full marks cum laude)

University "Parthenope"

Computer Science (Design and analysis of algorithms, extensive knowledge of various programming languages, software development, database management, structure and organization of computer systems and computer networks, Image Analysis, Parallel Computing)

EQF level 6

LANGUAGE SKILLS

MOTHER TONGUE(S): Italian

OTHER LANGUAGE(S):

English

Listening
B2

Reading
B2

**Spoken
production**
B1

**Spoken
interaction**
B1

Writing
B2

PUBLICATIONS

● **On the Virtualization of CUDA Based GPU Remoting on ARM an X86 Machines in the GVirtuS Framework**

2016 <https://link.springer.com/article/10.1007/s10766-016-0462-1>

International Journal of Parallel Programming

The astonishing development of diverse and different hardware platforms is twofold: on one side, the challenge for the exascale performance for big data processing and management; on the other side, the mobile and embedded devices for data collection and human machine interaction. This drove to a highly hierarchical evolution of programming models. GVirtuS is the general virtualization system developed in 2009 and firstly introduced in 2010 enabling a completely transparent layer among GPUs and VMs. This paper shows the latest achievements and developments of GVirtuS, now supporting CUDA 6.5, memory management and scheduling. Thanks to the new and improved remoting capabilities, GVirtuS now enables GPU sharing among physical and virtual machines based on x86 and ARM CPUs on local workstations, computing clusters and distributed cloud appliances.

● **Virtualizing GPGPUS on ARM clusters**

2016 https://link.springer.com/chapter/10.1007/978-3-319-32152-3_1

Parallel Processing and Applied Mathematics

The acceleration of inexpensive ARM-based computing nodes with high-end CUDA enabled GPGPUS hosted on x86 64 machines using the GVirtuS general-purpose virtualization service is a novel approach to hierarchical parallelism. In this paper we draw the vision of a possible hierarchical remote workload distribution among different devices. Preliminary, but promising, performance evaluation data suggests that the developed technology is suitable for real world applications.

● **The High Performance Internet of Things: using GVirtuS to share high-end GPUs with ARM based cluster computing nodes**

2014 https://link.springer.com/chapter/10.1007/978-3-642-55224-3_69

Parallel Processing and Applied Mathematics

The availability of computing resources and the need for high quality services are rapidly evolving the vision about the acceleration of knowledge development, improvement and dissemination. The Internet of Things is growing up. The high performance cloud computing is behind the scene powering the next big thing. In this paper, using the GVirtuS, general purpose virtualization service, we demonstrate the feasibility of accelerate inexpensive ARM based computing nodes with high-end GPUs hosted on x86_64

x86_64 machines. We draw the vision of a possible next generation of low-cost, off the shelf, computing clusters we call Neowulf characterized by high heterogenic parallelism and expected as low electric power demanding and head producing.

DRIVING LICENCE

● **Driving Licence: A**

● **Driving Licence: B**

ORGANISATIONAL SKILLS

● **Organisational skills**

I have participated both as a Leader and co-worker in a variety of job ventures, primarily in small group situations (3-5 persons).

I put in all the effort that is required to ensure that any project with which I am involved is seen to completion in an effective and successful way. I am also very dedicated to my personal development.

COMMUNICATION AND INTERPERSONAL SKILLS

● **Communication and interpersonal skills**

Team spirit, good communication skills acquired during my working and academic experiences.

ABOUT MY SELF

● **About my self**

I define myself creative, organized and a fast learner when it comes to design and develop of complex applications. I wrote my first code line at 10 y.o. since then things never changed I am still passionate about writing code, learn new languages and master new technologies (my next jump in the hole will be deep learning).

I love to enjoy my free time with friends playing guitars, playing soccer or just hanging around. I always try to do my best to be a better person and giving back to society what I learnt and what I can.