MARIO CAVICCHI

Position: Senior Software Engineer
Project Role: Software Developer
Years Professional Experience: 14

SUMMARY OF EXPERIENCE

Mario Cavicchi is working as **Senior Software Developer** for image manipulation and processing since 2007 at MEEO S.r.l., Ferrara, Italy. He has more than ten years of experience in Linux system administration and software development. During his work and study he has gained knowledge of:
-   Satellite image processing chain, Big Data analytics tools, Image objects classification
-   Web Coverage Service (WCS) and Web Map Tile Service (WMTS)
-   Warehouse Management System (WMS)
-   Open Data Protocol (Odata)
-   Different programming languages
-   Different Linux Distribution (Ubuntu, RedHat, Fedora, Scientific Linux , Debian, etc)
-   Different network services (postfix mail server, apache web server, mysql/postgresql/mongo database server, HAProxy, DNS server, etc)
-   Distributed file systems (NFS, object storage, etc)
-   Different development environment
-   Network administration
-   OpenNebula cloud computing
-   OpenStack cloud computing
-   Amazon Web Services (AWS)

EDUCATION

2007 – Degree on Computer Science. University of Ferrara, Ferrara, Italy. Thesis title: "*Development of software for the elaboration and the manipulation of data from LANDSAT and SPOT satellites*".
2004 – Bachelor Degree on Computer Science. University of Ferrara, Ferrara, Italy. Thesis title: "*Installation and measures of performance of a cluster processor*".

Attended courses

-   OpenMosix Workshop on "Distribuited Calculation" at CINECA (Bologna)
-   During the study for the degree on computer science, attended a course on "Quality Control", centralized on the knowledge of norm UNI EN ISO 9001:2000.

Technical experience

Operating Systems: Linux (System administration), Microsoft's Operating System, Mac OSX
Languages: BASH scripting, HTML/XHTML/CSS, PHP, C, C++, Perl, VHDL, Visual Basic, SQL, Java, Javascript

Recent works / collaborations

-   Software Developer and Senior Analyst for ESA projects (EOCHA - Earth Observation for Climate-related Health risk in Africa; ASIM - Automatic, Semantic Image Information Mining from Time Series of. HR/ VHR Images; SPA - Support by Pre-classification to Specific Applications; CARD - Classification Application-services and References Datasets)
-   Software Developer for FP7 / H2020 projects (EarthServer - Big Earth Data at your fingertips)
-   Software Developer for ESA Ground Segment projects (DSI - Data consolidation and bulk processing Service Initiative; MaaS - MEA as a Service for Third Party Missions)
-   Software Developer and Senior Analyst for job processing developer over Grid Processing on Demand (G-POD) for Earth Observation Applications.
-   Software Developer and Senior Analyst for development of MWCS, high performance Apache module for Web Coverage Service (WCS), based on GDAL libraries.
-   System administrator and coordinator of Advanced Synthetic Aperture Radar (ASAR) processing data for ESA project DSI