






PERSONAL INFORMATION



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Sex Male | Date of birth 11 Nov 1987 | Nationality Spanish

PREFERRED JOB

Computer systems designer and analyst or any kind of technical position specialized in one product. At least 95% remote position. Also a job in a research/regatta ship or maritime related job is welcome.

WORK EXPERIENCE

Sep 2014–Present

HPC System Administrator & Solution Architect

Barcelona Supercomputing Center
Jordi Girona 31, Barcelona, 08034 Barcelona (Spain)
<http://www.bsc.es>

HPC System Administrator

Me and my team have the responsibility of managing Marenostrum, the most powerful supercomputer in Spain and 29th of Top 500 on 2013.

I was in charge of plan, design and deploy a GPU based cluster for the center with a team of 5 people.

I shared management of another cluster for the national center of genomics (CNAG), with an important storage migration and connected to Illumina sequencers.

Main technologies used in this field are GPFS, Lustre, xCAT, Slurm, LSF and Puppet. I like and I am specialized in Slurm, where I adapted some old plugins to new software versions.

I am currently starting a project for deploying PaaS for RD-Connect using technologies like Foreman, Puppet, Docker, HDFS, Cloudera, DC/OS, Spark, ElasticSearch, GlusterFS.

PRACE - Partnership for Advanced Computing in Europe

I have the leadership of 3 operational work packages, providing track of new systems and upgrades, compute resources and managing a small team with european centers aiming to create service prototypes for improving the european infrastructure.

System Administration

My main achievement is the deployment of IBM Spectrum Protect 7.1 (formerly Tivoli TSM). I took the role of backup manager of the center with more than 2PiB for HPC resources and more than 150 user servers and machines. Currently also making the project plan and design of a new archive system for CNAG.

Finally my last main task consists on maintenance of the core services of the center.

Business or sector Research

May 2013–Sep 2014

Core Tech & Engineered Systems Consultant

Oracle, Barcelona (Spain)
<http://www.oracle.com>

Core Tech & Engineered Systems Consultant

Worked on a project for the biggest supermarket in Spain. My team deployed the backend and middleware stack of two new datacenters that replaced the old ones. Took part on the architecture design and documentation plus the implementation of the technologies.

Cluster and Database

Mastered with Oracle RAC Database and Grid Infrastructure 11gR2 products and created and managed more than 150 databases on three different environments with high availability, replication (Dataguard), backup (RMAN), and more. Adapted cluster resources to customer needs.

IT Management

Learned Cloud Control 12c suite and programmed automatic procedures for deploying and managing the infrastructure. Adopted deep knowledge of product capabilities in terms of monitoring services and resources.

Middleware

Installed and set up Weblogic 12c instances and deployed applications. Also worked with Oracle Service Bus 12c, Oracle Coherence 12c, and other Oracle Fusion 12c products.

Feb 2009–Apr 2013

System Administrator & HPC Engineer

CIMNE - Centre Internacional de Mètodes Numèrics en Enginyeria, Barcelona (Spain)
<http://www.cimne.com>

System & Network Administrator, Data center management

Tasks performed at CIMNE were focused on infrastructure renewal and maintenance. Mounted physical equipment, deployed OS, set up all center core services, created plans for IT management and operation. I configured from scratch AD Domains, LDAP, DNS, Databases, Backup on Tape, Virtualization, Web & FTP servers, etc.

High Performance Computing Engineer

My main achievement was the creation from scratch of the computing service of the center. I successfully managed the deployment of a 18-node HPC Cluster with Infiniband network and SAN storage, set up TFTP+PXE, Slurm as resource manager & job scheduler, parallel libraries, compilers and other researcher utilities, and documented it all. The documentation served for my final degree project where I obtained maximum qualification.

Code Performance Analysis

I began to work with COMP-DES-MAT Advanced Grant project researchers, analyzing python/c++/matlab code and trying to optimize it for parallel computing. I helped also other center researchers with parallellizing their code.

EDUCATION AND TRAINING

2005–2012

Computer Science

EQF level 7

Facultat d'Informàtica de Barcelona - UPC, Barcelona (Spain)
<http://www.fib.upc.edu>

Computer Science Engineer (5y - 304.9 ECTS)

Profiles achieved

- Operating Systems & Networks
- Hardware Architecture & High Performance Computing

Final degree project

Infraestructura de Càlcul HPC CIMNE - (10.0 - MH)

Jul 2010

ITIL Foundation v3 Certificate

EXIN - 2189017_20169852

May 2013

PATC @ BSC-CNS - Programming MareNostrum III

Jun 2013 Oracle 11g: RAC and Grid Infrastructure Administration Accelerated Release 2

PERSONAL SKILLS

Mother tongue(s) Català, Español

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	B2	C1	C1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
 Common European Framework of Reference for Languages

Communication skills Good communication skills. Specially able to provide a structure to the conversation flow in order to get to the problem resolution as soon as possible, and also come to good agreements for all parts.

Organisational / managerial skills I consider myself to have very good organizational skills. I work in a highly structured way and I consider that this permits me to achieve all the required goals on time and under pressure. I acquired experience using many tools like Jira, Producteev, Trello, GLPI, RT, and others, taking the leadership of many projects, and managed groups of people on certain projects. Also have demonstrable capacity to work as part of big teams formed by multiple companies.

Job-related skills Deep knowledge of low level operating system operation and implementation. Good knowledge of C and Bash. I often use Python but able to code in any language. Notions of parallelism with OpenMP, MPI, Threads, etc. Specialized in technologies like Slurm, IBM Spectrum Protect or LDAP. Good skills on project management and architectural design.

Other skills I like everything related with nature. Sailing is my main interest, specially sailing regattas or making offshore voyages. One of my dreams is to go on a long journey along the world on my own boat and know different cultures and places. I also coordinated an activist group in defense of the nature and the cultural heritage of Menorca.