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## Work Experience

**High Performance Computing Systems Administrator**  
*Royal Bank of Scotland as an Excelian Ltd. Consultant*

Jun. 2008 - Now  
London, UK

- Support and development of around one hundred of DataSynapse grids, using more than 6000 windows and linux hosts. Focus in reliability, responsibility and teamwork.
- Triaging and rational troubleshooting of grid application failures. Engagement with specialized teams each with their own area of expertise to delegate or escalate issues. Disaster prevention and recovery, including events as the loss of full datacenters. On-call support experience.
- Optimization of resource utilization through resource sharing and harvesting, in one year we managed to use the computing power of around 10000 desktops with minimal issues.
- Maintenance of good relationships with a large number of infrastructure, development, and non-technical teams to ensure an efficient collaboration. We ensured that our daily activities would promote an image of reliability and efficiency, to facilitate the grid estate to grow and become more useful.
- Experience in evolution and standardization of large environments to ensure an easy maintenance. We managed to install the same security configuration, monitoring and software versions over thousands of machines of diverse origins.

**Grid Analyst**  
*Excelian Ltd.*

Feb. 2008 - Now  
London, UK

- Architected and developed part of the Excelian Grid On Demand framework, comprising 30 machines running Solaris and Linux. My tasks involved using VirtualBox, shell scripting and Python scripting.
- Managed the creation of the ExcelianSupportal.com web platform. Created the development environment for the project using Linux, VirtualBox, Rsync, SVN and Trac.
- Developed the billing system for the Excelian Grid On Demand Framework using NetBeans, Java, Hibernate, Spring, Swing and MySQL.

**Web Developer and Entrepreneur**  
*Cygnus Web Design*

Jun. 2007 - Mar. 2008  
Valencia, Spain

- Founder, developer and designer of a two-people web design company (<http://www.cygnuswebdesign.es>). Provided good revenue and was an excellent training on customer relationships. I was in charge of the technical part of the business.

**Analyst/Developer**  
*Instituto Tecnológico de Informática*

May. 2007 - Dec. 2007  
*Valencia, Spain*

- Worked on several Java projects, as analyst or developer.

**Research Assistant**  
*Instituto Tecnológico de Informática*

Nov. 2005 - Apr. 2007  
*Valencia, Spain*

- Maintained and documented dr-ea-m, a Java massively distributed computing platform.
- Built and maintained a eight-machine linux computing cluster and system server for the complex adaptive systems research group.
- Researched on complex systems, graph theory and evolutionary computing, with published results in English and Spanish.

## Skills

*Programming Languages:* Java, Python, Bourne Shell, HTML, JavaScript, C.

*Operating Systems:* Linux and Windows, on several flavours.

*Distributed Programming:* DataSynapse, Ganglia, VirtualBox, Globus, GigaSpaces.

*Java Programming:* Eclipse, NetBeans, Spring, Hibernate, Swing.

*Web Development:* CSS, Joomla, Liferay, Tomcat.

*Other Computer Tools:* ECJ, SVN, CVS, MySQL, Trac, Latex, XML.

*Languages:* Excellent English and Spanish, fluent Italian and Catalan, notions of French.

*Miscellaneous:* Excellent problem solving and communication skills. Basic training in Quantitative Finance, including Black-Scholes and Montecarlo models.

## Education

**Parallel and Distributed Computing Master**  
*Polytechnic University of Valencia*

Sep. 2006 - Dec. 2007  
*Valencia, Spain*

Topics studied include Parallel Computing with C and MPI, Grid Computing with Globus, Distributed and P2P Computing with Java. Good understanding of multithreading programming and scalability techniques.

This 5-year degree includes a Specialization in artificial intelligence and bio-inspired computation.  
Broad knowledge of programming languages and techniques.

## Selected Publications

- ”**Tipado fuerte y preselección de variables en el problema de la predicción de quiebra empresarial mediante programación genética**”, *II Congreso Español de Informática, CEDI'07* (2nd author).
- ”**Análisis de la topología de una red newscast**”, *II Congreso Español de Informática, CEDI'07*.
- ”**Nadeweb: Nuevos algoritmos distribuidos y evolutivos en la web**”, *Actualidad TIC* (ISSN: 1696-5876), (12):9-11, May 2007 (2nd Author).
- ”**Aprendizaje automático con programación genética**”, *Actas del V Congreso Español sobre Metaheurísticas, Algoritmos Evolutivos y Bioinspirados (MA'07)* (4th author).
- ”**Implementación de algoritmos distribuidos para un entorno de distribución epidémica**”, *Actas del V Congreso Español sobre Metaheurísticas, Algoritmos Evolutivos y Bioinspirados (MA'07)*.
- ”**Building hyper-heuristics through ant colony optimization for the 2D bin packing problem**”, *Knowledge-Based Intelligent Information and Engineering Systems, 9th International Conference, KES 2005*