

DANIEL JOSÉ CAMPELLO DÍAZ

03/25/1987

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Academic Background

- **Florida International University** — Miami, Florida, United States
PhD in Computer Science: Fall 2010 - present
 - **GPA:** 4/4
 - **Advisor:** Raju Rangaswami.
 - **Research:** Operating Systems and Storage Systems.
- **Universidad Simón Bolívar** — Sartenejas, Venezuela
Bachelor in Computer Engineering: 2004-2009
 - **GPA:** 4.12/5
 - **Acceptance:** 11th place of 9396 applicants.
 - **Specialization:** Database Modeling and Administration, Algorithm Design.
 - **Electives:** Parallel Algorithms, Cryptography and Data Security, Artificial Intelligence.
 - **Dissertation title (Honorable Mention):** Implementation of a JPEG encoder for *Cell Broadband Engine*.

Interests

- Operating Systems and Storage Systems.
- Development of Parallel Algorithms.
- Operating Systems Administration (GNU/Linux and UNIX).

Research Experience

- **SoftPM: Software Persistent Memory**
Jorge Guerra, Leonardo Marmol, Daniel Campello, Carlos Crespo, Raju Rangaswami, Jinpeng Wei
Allows applications allocate and interact with persistent memory in much the same way as they work with volatile memory by the usage of a simple API.
- **SchedCross: Cooperative CPU Scheduler for Real Time Application in Virtual Machines**
Daniel Campello, Dulcardo Arteaga
Hierarchical scheduler that enables a communication channel between guest OS and VMM CPU schedulers, allowing them to communicate tuning the internal parameters of each other.
- **Implementation of a JPEG encoder for Cell Broadband Engine**
Daniel Campello, Angela Di Serio
Algorithm to convert images from BMP to JPEG image compression format, leveraging the high performance parallelism available with Cell Broadband Engine architecture.

Work Experience

- **Florida International University, Computer Science School** — Miami, FL, United States
Research Assistant: August 2010 - present
 - SoftPM: Software Persistent Memory.
- **New Mexico Consortium at Los Alamos National Lab** — Los Alamos, NM, United States
Junior Research Scientist: May 2011 - August 2011
 - SoftPM: Software Persistent Memory.
- **Y&V Multi-Tech Consulting Group** — Caracas, Venezuela
Consultant: January 2010 - April 2010
 - Management Consultant of UNIX and GNU/Linux Systems.
- **Laboratorio Docente de Computación** — USB, Sartenejas, Venezuela
Systems Administrator: January 2007 - December 2009
 - Administration of mail, DNS, web (HTTP and Apache Tomcat), LDAP, print, firewall, NTP, NFS, DHCP, Bacula, Nagios services and other.
 - Management and maintenance of large numbers of networked GNU/Linux, Solaris and Windows machines, computer architectures x86, SPARC and Alpha.
 - Update and redesign the official website of the laboratory using PHP and MySQL.
- **Laboratorio BWL** — USB, Sartenejas, Venezuela
Systems Administrator: January 2008 - April 2009
 - Administration of mail, DNS, web, LDAP, print, NFS, DHCP services and other.
 - Database Administration Oracle 9i and 10g, and MySQL.
 - Administration of GNU/Linux, Solaris 9 and 10 Servers and *workstations*.

Skills

- **Computer Languages:** C, C++, Java, AWK, bash *shell scripting*, L^AT_EX, PHP, HTML, Ruby, Perl, Haskell, Prolog, JSP, Matlab, PL/SQL.
- **Tools and software:** VIM, Subversion, MySQL, TRAC, Bacula, Nagios, dia, kile, OpenOffice, Microsoft Office.
- **Development of Parallel Algorithms:** OpenMPI library and OpenMP for language C. Shared memory parallelism through the use of *Cell Broadband Engine Architecture*
- **Operating Systems Administration:** GNU/Linux, FreeBSD, Solaris 9 and 10.

Languages

- Spanish (Mother Tongue), English and Galician.

Training Courses

- Oracle Database 10g: Administration Workshop I (40 hours).

Complementary

- X Programming Marathon Computer Engineering – USB, October 2008
- IX Programming Marathon Computer Engineering – USB, October 2007