

# Nicolás D. César

+1 617 319 5832  
[nico@nicocesar.com](mailto:nico@nicocesar.com)

## Profile

A proactive GNU/Linux system administrator/programmer and creative problem solver.

Active programmer since childhood, has experience in several computer languages either as a hobby, professionally or out of an academic interest.

Excellent communication skills in Spanish, good in English.

## Skills

- Cloud platform tool creation, including AWS, Xen, Eucalyptus, Digital Ocean and others.
- Very good TCP/IP knowledge, able to troubleshoot problems using low-level diagnostics tools.
- Experience programming in over 10 computer languages, including Python, PHP, Bash as well as some C, Java, Perl.
- Network service design for corporate users. During the course of 14 years a wide range of sysadmin tasks, including scripting, virtualization solutions and cloud management.
- Experienced public speaker at Latin American FLOSS conferences. More than 90 speeches delivered on several topics, including Python, PHP, GNU Philosophy, and many others. This also includes experience at delivering courses for College level audience.
- Good interpersonal communication and social skills.

## Achievements

- Maintenance of a 1000+ cloud servers configuration with a automatic reprovision approach. Having a major challenge on providing high availability on the 40+ MySQL database servers instances.
- Develop, monitor and maintain a 80 GNU/Linux critical mission server architecture with Ganeti (a Xen based virtualization tool), then ported the experience to Amazon Web Services.
- *Build it Fast's* Main developer. A LAMP (Linux-Apache-MySQL-PHP) application generation framework aimed at reducing the programmer's development time. It started as a hobby and became the core technology of all web application created by Lunix S.R.L.<sup>1</sup> It's Free Software, <http://bif.linux.com.ar>
- Developed a web administration interface for an IEEE802.11-based network covering 350 square km for an oil related company. This tool allows the user to make massive changes to more than 2000 nodes (most of them Access Points and remote serial/Ethernet gateways). The network handles mission-critical, revenue-generating data from fixed assets such as oil and gas wells, compressor stations, pipelines, fluid storage tanks and utility meters.
- Outlined and deployed a local newspaper's web scalability plan. Replaced a single Apache web server using PHP and MySQL with several servers used for content delivery (replaceable Apache servers) and separated storage servers. Before the project, the site had 130.000 unique visitors per day, which led to I/O bottleneck problems, it now handles 10 times the workload with scalability issues reviewed.
- Delivered courses within college activities and professional work to more than a thousand students in topic such as MySQL, GNU/Linux, PHP, Basic programming, etc.
- *Cursos Project's* Founder. Cursos is a TLDP-ES<sup>2</sup> project for creating free GNU/Linux teaching material used in many Spanish-speaking institutions<sup>3</sup>.

---

<sup>1</sup> See Work Experience for Lunix S.R.L detailed information

<sup>2</sup> TLDP-ES The Linux Documentation Project Spanish

<sup>3</sup> <http://www.ibiblio.org/pub/linux/docs/LuCaS/htmls/cursos.html>

## Work Experience

### **DataXu August 2014 - present**

DataXu is fast growing software company specialized in real time marketing and machine learning. I'm part of the System Engineering team responsible for provisioning and monitoring a wide range of services, from physical server provisioning to specialized AWS products.

### **Free Software Foundation April 2012 - June 2014**

FSF is a non-profit organization founded by Richard Stallman. I was part of the sysadmin team. My shared responsibility was to manage a Xen virtualized environment with six Dom0 and near a hundred DomUs. There was a wide spectrum of running services, making each DomU almost unique. As expected every box runs only Free Software.

### **Device Software Inc August 2011 - March 2012**

*Device scape* is a large WiFi offload company in USA mobile market. There is a 200+ cloud instances infrastructure that serves few million mobile devices per day. My responsibility was to coordinate sysadmin work with a very hands-on approach.

### **Contact Point Solution LLC December 2010 - March 2012**

*Contact Point Solutions* is a coaching and training dedicated company with a heavy VoIP background for it's services. My responsibility was a sysadmin-developer mixed role hybrid cloud/in-house infrastructure to ensure the availability of web-based systems and the supervision of the offshore Argentine team.

### **Universidad Nacional del Litoral (UNL) June 2008 - April 2011**

*UNL* is one of the major Argentina's Universities, my main responsibility is the system administrators group's coordination. The group's main tasks are:

- Installation, monitoring and maintenance of mission critical GNU/Linux based servers. Most of the infrastructure was virtualized using Xen.
- Design and implementation of physical and logical TCP/IP infrastructure.
- Security aspects like availability and data integrity are handle with many other smaller tasks like data backup and restore, monitoring, firewall design and others.

### **Linux S.R.L. (Owner) 2000 - August 2007**

Linux S.R.L is a GNU/Linux solutions company operating in Santa Fe, Argentina. Its main customers are local small and medium-sized organizations.

- Designed and implemented solutions based on free software for small and mid-sized organizations.
- Coordinated developers, both for in-house and offshore development.
- Supported internal infrastructure and own Internet Linux servers.
- Assisted commercial management in designing new products and services.

## Formal Education

Universidad Tecnológica Nacional, Facultad Regional Santa Fe:

- *Ingeniero en Sistemas de Informacion*<sup>4</sup> / Software Engineer

---

<sup>4</sup> BS equivalent