

# David Toro Triana

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Carrera 15 # 188-11  
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## PROFESSIONAL PROFILE

During the last 10 years, I have been working in the field of Web Development and GNU/Linux Systems Administration, thanks to the FLOSS ( *Free Libre Open Source Software* ) movement, which allowed me to research, to learn and to contribute to industry and the academy in those fields:

- I have experience in the deployment and administration of services LAMP, in the main GNU/Linux distributions (CentOS-Red Hat-Fedora & Debian-Ubuntu).
- Also I have worked as Frontend Developer using web standards like HTML5, CSS3 and JavaScript, CSS preprocessors (Bootstrap), using the most popular CMS's and frameworks like Joomla! or Django.
- I like to work and explore continuously game changer platforms like Docker, Kubernetes, new app development trends like JAMStack, Progressive Web Apps - PWA or React Native, through debugging, troubleshooting and deploying in the server side.

I understand that the technology is merely a tool to get organizational goals. From a multicultural environments and goal-oriented leadership, I like to build and maintain productive relationships with clients and colleagues, to gathering, assessing and analysing customer needs, translating business requirements in solution design and effective customer experience.

## PROJECTS

**Legal Representation**  
***Open Source Academic Initiative (NGO).***  
<https://opensai.org>  
(+57) 320 3614052

*Legal Rep. (Substitute) – Miguel Ángel*  
**González Garzón**

**January 2013 - 2020**

Legal Representation and projects management:

- Management of Open Source services brief (<https://opensai.org/business>)
- Development of pedagogical content and follow-up of the educational process of the *Programa de Fortalecimiento de Capacidades - Formación en animación digital, 2D, 3D, StopMotion y Efectos Especiales ANIMADELAB* (Facultad de Ingeniería, Universidad Nacional de Colombia - 2015 - MinTIC)
- Learning platform (EdX) for blind people (Facultad de Ingeniería, Universidad Nacional de Colombia, INCI - 2015 )
- Signing of the cooperation agreement with the Universidad Nacional de Colombia (Facultad de Ingeniería – Octubre 2010)
- Signing of the cooperation agreement with the Universidad Minuto de Dios – #OpenLAB (Facultad de Ingeniería – Febrero 2017)

**CERI Internationalization Platform**  
**Universidad Distrital Francisco José de**  
**Caldas - UDFJC.**

*Director – Dr. Alexis Adamy Ortiz Morales*

<https://ceri.udistrital.edu.co>

323 9300 Ext 1007 – Carrera 7 No 40 - 53 Piso 3

**July 2010 – December 2019**

Development, support, maintenance of services, utilities, tools and interactive content of the web platform of the *Centro de Relaciones Interinstitucionales - CERI*. It includes Agreements Directory, International Students Application System (academic mobility), API integration with the *Universidad Distrital Francisco José de Caldas - UDFJC* academic management system.

The initiative was recognized by the CNA (<https://www.cna.gov.co>) in 2013, as a best good practices in internacionalization in Colombia, within the framework of high quality accreditation:

- <https://www.cna.gov.co/1741/article-320722.html>

**Associate Engineer**  
**Tecnologías Xue Ltda (closed).**

*Legal Representation – Verónica González*

<http://xue.com.co>

(+57) 300 2412225

**Julio 2006 – Febrero 2008**

Carrera 46 No 93-27 Oficina 101

Integration and implementation of security biometric solutions, and corporate open source solutions, using the classical methodologies of system and software engineering.

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## EDUCATION

Systems Engineer (Ingeniero de Sistemas)

Graduation Project *SISTEMA DE RENDER DISTRIBUIDO TIPO CLUSTER, INTEGRABLE COMO RECURSO A UN ENTORNO DE COMPUTACION GRID*

Universidad Distrital Francisco José de Caldas - UDFJC

## SPECIAL SKILLS AND KNOWLEDGE

- Configuration and administration of the operating systems GNU/Linux (Debian, CentOS), with the related applications and services (Apache, MySQL, Nginx)
- Open Source applications cloud deployment (Linode, Azure, AWS)
- Customization and administration of web Content Management Systems - CMS's (Wordpress, Joomla!, Drupal), Learning Management Systems - LMS's (Moodle, EdX)
- Basic development skills in C/C++, Python (Django)
- Content creation using open source design and editing tools (Gimp, Inkscape, OpenShot)

## AREAS OF INTEREST AND RESEARCH

- Computer Graphics / Scientific Computing
  - Configuration and Administration of the Terascale Open-source Resource and QUEUE Manager TORQUE (<https://github.com/adaptivecomputing/torque>) and Globus Toolkit (<https://toolkit.globus.org/>) at the CECAD (<https://tinyurl.com/y5ksh6by>) in render OpenGL 3D imagery and grid computing (2011-2014)
    - \* 64 nodes (16 physicals)
    - \* 32 Tb RAM
    - \* shared storage in S.A.N.
  - OpenCL, MPI (Message Passing Interface) in C/C++ and Python, over a Beowulf MOSIX or Pelican HPC cluster, to support galaxy spectral analysis in the COMPUCIE team (<https://tinyurl.com/y3knf9b7>)
  - HPC provisioning over Azure CycleCloud (entry level by institutional budget)
- Infrastructure Orchestration and services using Docker, Kubernetes (AKS, OpenShift)
- The L<sup>A</sup>T<sub>E</sub>X documentation system
- Good engineering practices, ethical hacking
- Open licensing and innovation support
- New technologies social application:
  - New education and social, digital inclusion models
  - Alternative models of economic self-sufficiency, cultural identity, civil society and democracy
  - Food self-sufficiency, ecology, sustainability (permaculture)

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## PERSONAL REFERENCES

Omaira Tovar Ruiz

Instituto Colombiano del Sistema Nervioso Clínica – Monserrat

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Information Science Professional, Librarianship and Archivist (Profesional en Ciencias de la Información, Bibliotecología y Archivista)

Olman Yair Vasquez

MINCIVIL

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Systems Engineer (Ingeniero de Sistemas, Especialista en Gestión de Proyectos)

