

# David Toro Triana

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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 - December 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* (Faculty of Engineering, Universidad Nacional de Colombia - 2015 - MinTIC)
- Learning platform (EdX) for blind people (Faculty of Engineering, Universidad Nacional de Colombia, INCI - 2015 )
- Signing of the cooperation agreement with the Universidad Nacional de Colombia (Faculty of Engineering – October 2010)
- Signing of the cooperation agreement with the Universidad Minuto de Dios – #OpenLAB (Faculty of Engineering – February 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*

**July 2006 – February 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)

## EVENTS, SUMMITS, COURSES AND CONFERENCES

- Formulación y Gestión de Proyectos de Cooperación Internacional, *Cámara Junior Internacional* - *JCI* (December 2010)
- Administración y Gestión de Proyectos: Plan de contingencia para el acompañamiento y formulación de proyectos de investigación regional que apliquen al Fondo de Ciencia, Tecnología e Innovación del Sistema General de Regalías, *Centro de Investigaciones y Desarrollo Científico* - *CIDC, UDFJC* (July 2012)
- Encuentro de Universidad y Cooperación: Entre la Cooperación Académica, la Cooperación Universitaria al Desarrollo y la Responsabilidad Social, *Fundación Universitaria del Área Andina* (August 2013)
- Workshop for projects formulation, programme: Horizon 2020, with the Mrs. Paola Bon, expert in the Framework HORIZON 2020 and European Union Projects, *Oficina de Transferencia de Resultados de investigación de Bogotá* - *OTRI, UDFJC* (October 2014)
- 1er Foro Regional Producción Agroecológica en el Tropico, *Corporación Universitaria Minuto de Dios* - *UNIMINUTO* - *Vicerrectoría Regional Llanos* (September 2014)
- Comité Organizador, IV Congreso Internacional GIEI, *Interdisciplinar de Investigación en Educación e Inclusión* - *GIEI, UDFJC* (October 2018)
- International Relations Training Period based on the Erasmus+ Project Key Action 107 financed by the EU through Romanian National Agency, “1 Decembrie 1918” *University of Alba Iulia, Romania* (April 2018)

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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

316 8089525

ovasquez@mincivil.com

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

