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 continuosly game changer platforms like Docker, Kubernets, 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 Representation and projects management:

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

January 2013 - December 2020

- Management of Open Source Services Brief
- 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   *Director* – **Dr. Alexis Adamy Ortiz Morales**
Universidad Distrital Francisco José de Caldas - UDFJC.
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 Aplication System (academic mobility), API integration with the academic management system. This initiative was recognized by the CNA 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   *Legal Representation* – **Verónica González**
Tecnologías Xue Ltda (closed).
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
Professional Registration at *Consejo Profesional Nacional de Ingeniería - COPNIA* 25255-252430
CND - *Ingeniero de Sistemas*

SPECIAL SKILLS AND KNOWLEDGE

- Configuration and administration of the operating systems GNU/Linux (Debian, CentOS), with the related aplications 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 and The Globus Toolkit at the CECAD in render OpenGL 3D imagery and grid computing (2011,2014)
    * 64 nodes (16 physicals)
    * 32 Tb RAM
    * shared storage in S.A.N.
  - OpenCL (Open Computing Language), MPI (Message Passing Interface) in C/C++ and Python, over a Beowulf MOSIX and a Pelican HPC cluster, to support galaxy spectral analysis in the COMPUCIE team
  - HPC provisioning over Azure CycleCloud (entry level by institutional budget)
- Infrastructure Orchestration and services using Docker, Kubernetes (AKS, OpenShift)
- The LaTeX documentation system
- Good engineering practices, ethical hacking
- Open licensing and innovation support
- New technologies social aplication:
  - 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)

- Formulation and Management of International Cooperation Projects, *International Junior Chamber - JCI* (December 2010)

- Project Administration and Management: Contingency plan for the monitoring and formulation of regional research projects that apply to the Science, Technology and Innovation Fund of the General Royalties System, *Centro de Investigaciones y Desarrollo Científico - CIDC, UDFJC* (July 2012)

- University and Cooperation Meeting: Between Academic Cooperation, University Cooperation for Development and Social Responsibility, *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)

- 1st Regional Forum Agroecological Production in the Tropics, *Corporación Universitaria Minuto de Dios - UNIMINUTO - Vicerrectoría Regional Llanos* (September 2014)

- Organizing Committee, IV GIEI International Congress, *Grupo 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

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Luis Andrés Murcia
Industry Specialist (Education) at Microsoft
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System Engineer