David Toro Triana

Bogotá D.C., Colombia
(+57) 313 255 98 64
dtorot@opensai.org

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 LAMP services, in the main GNU/Linux distributions (Redhat, CentOS, 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 (WordPress, Joomla!).

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   *Legal Rep. (Substitute)* – **Miguel Ángel**
Open Source Academic Initiative (NGO).   **González Garzón**
https://opensai.org
(+57) 320 3614052   **January 2013 - March 2022**
Legal Representation and projects management:

- [Management of Open Source Services Brief](#) ↗

- Signing of the cooperation agreement with the Universidad Nacional de Colombia (Faculty of Engineering – October 2014)

- 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 Minuto de Dios – #OpenLAB (Faculty of Engineering – February 2017)

- [OpenSAI-SENA-SENNOVA ReA Project](#) ↗. Development of a prototype of an augmented reality App for the Epson SmartGlass Moverio BT 300, to to help the navigation in a package store for the logistic sector (April 2018 - May 2019)

- Development of the Valure Web Site: *[High level Agency of Consultancy, political and government issues](#)* ↗ (AWS, Bitnami, internal API's integration - November 2021)

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OpenSAI Teaching Experience: the promotion, divulgation and teaching in Open Source Technologies is one of the missional functions in that *NGO*. I has participated in many workshops, seminars, courses organized by them:

- Free Seminars: Linux OS (usage traning to newbie users, professionals and other education levels), Wordpress, Joomla!, Moodle (a practical approach to use and implementation of most popular CMS's), Development of digital expression capabilities in young and adult people using GIMP, InkScape, OpenShot, and practical software develoment skills (python, javascript) ↗

- Participation in the tutorships and teaching of the training videogame group (Semillero de Vídeojuegos) in the #OpenLAB Initiative at the Uniminuto University ↗

- Participation in the tutorships and teaching of the Scientific Computation Group (Semillero de Computación Científica COMPUCIE ↗) at the UDFJC, they include work in OpenCL (Open Computing Language), MPI (Message Passing Interface) in C/C++ and python, over a Beowulf MOSIX and a Pelican HPC cluster, HPC provisioning over Azure CycleCloud (entry level by institutional budget) to support galaxy spectral analysis.

Calls and Opportunities Directory	*Project Director* - **Leidy Daniela Solarte**
Dirección Nacional de Investigaciones -	**Manrique**
DNIL - Universidad Nacional de	
Colombia - UNAL	
318 3181590 - ldsolartema@unal.edu.co	**June 2021 - January 2022**

Development of the Calls and Opportunities Directory of the UNAL. An initiative to centralize, review and promote of the differents opportunities of research financing, academic mobility and scholarships, at global and national level, with the aid of the academic community and the network of managers of internationalization of the UNAL locations at national level. Right now the system is waiting for the institutional AWS Cloud resources to his pilot deployment (Prototype: Heroku Cloud, Python/Django Framework, UNAL Internal API connection to the HERMES System, a management academic platform of the university)↗

CERI Internationalization Platform	*Director* – **Dr. Alexis Adamy Ortiz Morales**
Universidad Distrital Francisco José de	
Caldas - UDFJC (COVID closed).	
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.

Associate Engineer	*Legal Representation* – **Verónica González**
Tecnologías Xue Ltda (closed).	
(+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 (RedHat, 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)

EVENTS, SUMMITS, COURSES AND CONFERENCES

- 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)

AREAS OF INTEREST AND RESEARCH

- I like to work and explore continuosly infrastructure orchestration *game changer* tools like Docker, Kubernets (AKS, OpenShift), new app development trends like Serverless APPs, through his debugging, troubleshooting and deploying.
- 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.
- Good engineering practices, ethical hacking
- Open licensing and innovation support
- Online courses that I am currently taking
    - – Building Modern Python Applications on AWS ↗ Coursera - AWS
    - – Agile Project Management ↗ Coursera - Google
    - – How to Finance and Grow Your Startup ↗ Coursera - London Business School
    - – Full Stack open ↗ University of Helsinki
- The LaTeXdocumentation system
- Social thinking (Bochica Blog ↗):
    - – 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)