



Rodrigo Mauricio Garcia Saenz

Experience

May 2018 - November 2020, *Developer of public information systems, E-Government and Information and Communication Technologies Agency (AGETIC - Bolivia)*

- Design and implementation of **service of approval of documents with digital citizenship**. It allows giving legal validity to digital documents and ensuring integrity, non-repudiation and temporality by using the national state's blockchain. The service has been developed with:
 - Node.js
 - Javascript
 - Postgresql
 - Debian GNU/Linux
 - Hyperledger Fabric
 - Openid connect
 - Nginx
- Design and development of the user interface of the **Bolivian state's procedures portal**, which can be reviewed at <https://www.gob.bo>. Developed with technologies:
 - Vue.js
 - Nuxt.js
 - Javascript
- Organization of working group between public institutions and civil society as coordinator of the **free software group** of the 'Council on Information and Communication Technologies - Plurinational State of Bolivia' CTIC-EPB.

2016 - 2017, *Web Developer, Geographical Research Institute (IIGEO - UMSA)*

Design and development of a web platform for the XVI "Meeting of Latin American Geographers" (EGAL-2017). The site consisted of an integrated registration module with a Payme payment gateway, presentation of academic profile, papers, publication of works, certificate generation and report generation. The site was developed using:

- Python
- Django
- Bootstrap
- Postgresql
- Debian GNU/Linux
- Nginx

2017, *Systems Technician, Industrial Engineering Career (UMSA)*

Development of a web platform to collect information for accreditation with MERCOSUR ARCU-SUR. The following technologies were used:

- Python
- Django
- Bootstrap
- Jinja2
- Jquery
- Apache

2015, *Intership, Technological Development and Information Unit - Ministry of Public Works, Services and Housing (MOPSV - Bolivia)*

- Remastering of GNU/Linux Mint for ministry needs using GNU/Linux and bash.
- Local services deploy: Instant messaging.

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Residence
La Paz, Bolivia

About me

Computer programmer, data analyst.

Web developer with 3 years of experience, experience working on GNU/Linux servers, networks and databases. Data science student.

Languages

Spanish

Native language.

English

Advanced.

Interests

Professional

Data Analysis, machine learning, data visualization, data mining, data bases, data warehouse, Big Data, web development, libraries, protocols, encryption. Writing software documentation for courses and tutorials. Free software and open Data.

2015 - presente, *Volunteering*, Free community network Project 'La Otra Red' - <https://laotra.red>

- Design, development and construction of a free community network The network is based on the idea of decentralization and automatic training/repair following the mesh network topology using dynamic routing protocols such as bmx7, VPN connections installed in Routers and services such as DNS, websites and monitoring.
- Active participant and maintainer of the project wiki at <https://laotra.red>

Technologies used for software development and data analysis

Programming

Lenguajes:

- Python
- Javascript
- Bash
- C/C++ (básico)
- Java (basic)

Tecnologías varias:

- Node.js
- Vue.js
- JQuery
- Django
- Flask
- jinja2
- git

Data bases

- PostgreSQL
- MySQL/MariaDB
- SQLite
- MongoDB

Servers and containers

- Debian & Ubuntu
- Docker

Routers and networks

- OpenWRT
- netfilter
- VPN

Redes en malla:

- babeld
- bmx7
- batman adv

Analysis, data visualization and machine learning

- Python
- R(basic)
- Octave (basic)

Machine learning:

- numpy
- pandas
- pyspark
- scikit-learn
- tensorflow
- keras

Visualización:

- matplotlib
- seaborn
- pyplot

Academic Background

2013 - 2018, Mayor de San Andrés University

Bachelor's Degree in Computer Science with a major in software engineering.

2019 - 2020, Católica San Pablo University

Master's Degree in Data Science (in course)

2020, Coursera - Stanford Online

Machine learning

<https://coursera.org/share/926ba965578560a1f76ad1a14880d199>

2013, Pedro Domingo Murillo Superior Industrial School

Senior electronics technician