

Adelo Vieira, Developer/Data Scientist

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ENGLISH: Fluent

FRENCH: Fluent

SPANISH: Native

PORTUGUESE: Intermediate

Some of my projects

- ◆ <http://dashboard.sinfronteras.ws>
- ◆ <http://vglens.sinfronteras.ws>
- ◆ <http://62.171.143.243>
- ◆ <http://fakenewsdetector.sinfronteras.ws>
- ◆ For an extensive CV and Portfolio go to <http://wiki.sinfronteras.ws/view/CV>

Skills and Qualifications

Software Development

- ◆ Some of the languages I've worked with:
 - Python, Java, JavaScript, HTML, CSS
 - SQL, Shell scripting, R, PHP, C, L^AT_EX
- ◆ Object-Oriented Concepts and Constructs
 - SOLID Principles, Fundamental OOP concepts
 - Nested classes, Upcasting - Downcasting
 - **Object Orientation with Design Patterns**
- ◆ Web Development
 - React, Node.js (Express.js), Dash - Plotly, Ruby on Rails
- ◆ Mobile Development
 - Cordova - PhoneGap, Ionic - Capacitor

Data Science

- ◆ Linear and Logistic Regression, Naive Bayes, Decision Trees, K-Nearest Neighbour
- ◆ Association Rules, Clustering, Time Series Analysis
- ◆ Text Analytics: NLP, Sentiment Analysis
- ◆ Python for Data Science
 - NumPy, Pandas, NLTK, Scikit-learn, SciPy, TextBlob, Vader Sentiment
 - Data Visualization, Dash - Plotly
 - Scrapy
- ◆ R, RapidMiner, Jupyter

Other qualifications

- ◆ **Databases**
 - Database design:
 - * Entity relationship modelling & The Enhanced Entity-Relation Model
 - * Relational Model, Normalisation
 - MySQL, PostgreSQL
 - MySQL Workbench, PhpMyAdmin, SQLlectro
- ◆ **Cloud Computing:** AWS, Google Cloud
- ◆ **Linux**
 - Debian, Ubuntu, Red Hat, CentOS
 - LAMP Administration: Apache, MySQL, PHP
 - Remote Management with SSH, Backups
 - Shell Scripting

Work experience

Present



2022

IDG Direct, Ireland

Real Time Data Analyst

I'm responsible for analyzing and monitoring call center data. This includes call volumes, performance indicators, queue time, agents availability, inactivity levels, average handle times, etc.

- Finding patterns and trends in the data to help increase productivity and forecast requirements.
- Python programming for data analysis and data visualization: Pandas, Scikit-learn, Plotly, Dash.
- Data Management in Excel.
- Produce daily, weekly, and monthly internal reports to assist with the creation of metrics and targets for services.

Present



2020

Freelance Developer

- Development of crypto trading and social media bots using Python: Historical and real-time analysis of cryptocurrency data to predict price movements. The data analyzed include prices, volumes, cryptocurrency news (tweets / Announcements of new cryptocurrency listing in Exchanges), etc.
 - Real-time response optimization of crypto news (tweets/web content) through a multi-location server architecture.
 - Centralized management of multiple social media accounts to monitor market sentiment.
 - Data analysis and visualization: Pandas, Scikit-learn, Plotly, Dash.
 - REST API requests (Requests, asyncio/aiohttp). WebSockets client and server.
 - Concurrency: Multithreading (threading, ThreadPoolExecutor), Multiprocessing, Event loop (asyncio).
 - Web Scraping, BeautifulSoup, Selenium, Mysql.connector.
 - AWS (EC2, VPC, Amazon S3, Amazon Glacier) / GoogleCloud
- Development of a eCommerce Web Application for an optical glasses retailer using Python-Django:
 - Visit the Web App at <http://www.vglens.sinfronteras.ws>

2022



2017

IDG Direct, Ireland

Business Development Executive

- Lead Generations:
 - I represent IDG services by carrying out professional outgoing calls to prospective clients. I have to establish and maintain a professional conversation with IT Managers to identify their needs and next investments.
 - I'm the top performance on my team. I work in different markets and contact clients in French, English, and Spanish.
 - Gathering client details and Maintaining/Updating IDG database with accurate client details.
- Train new team members and provide ongoing training:
 - Motivating, developing, and training staff at a BANT level.
 - Script delivery and how to effectively communicate.

2014

WikiVox, France**Web Programmer**

I was responsible for the installation and administration of a Wiki Web Application based on the MediaWiki engine.

- Extensive experience with the MediaWiki Engine:
 - * Take a look at my personal Wiki: http://perso.sinfronteras.ws/index.php/Computer_Science_and_IT
- Administration of a Linux Server:
 - * Installation and configuration of a LAMP stack: Apache, MySQL, PHP.
- Database management: MySQL, PhpMyAdmin.

2012

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2011

Simón Bolívar University - Funides USB, Venezuela**Research geophysicist**

[Click here to see some examples of my work in Seismic modelling.](#)

As a Research Geophysicist, I was responsible for performing a set of Signal analysis/Data processing tasks, and ensuring the correct integration and implementation of geophysical applications into a computer cluster platform. One of my main activities was shell script programming for Seismic Modeling and Processing.

- My responsibilities include:
 - * Shell script / Python / MATLAB programming for Seismic data analysis/Signal analysis (Seismic data processing and modeling).
 - * Learning algorithms (Regression, classification) for Seismic data analysis.
 - * Simulations of seismic waves propagation: Wavefront and ray tracing.
 - * Generation of pre-stacked synthetic seismic data using wave propagation theories (raytracing and finite difference methods).
 - * 2D/3D Seismic data processing.

2011

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2010

CGGVeritas, Venezuela**Seismic data processing analyst**

I was responsible for performing Seismic Data processing/Analysis and Borehole Data Analysis for oil and gas exploration.

- 2D/3D Seismic data processing
- Numerical modeling of seismic wave propagation
- **Seismic/Borehole data Analysis:** Learning algorithms (Regression, classification) for estimating reservoirs properties / reservoirs classification.

2010

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2008

Simón Bolívar University, Venezuela**Academic Assistant - Earth Sciences Department**

As an Academic Assistant, I was in charge of collaborating with the lecture by teaching some modules of the Geophysical Engineering program at Simón Bolívar University. I was usually in charge of a group of between 20 and 30 students during theoretical and practical activities.

Education

- 2020 *Diploma in Predictive Data Analytics, College of Computing Technology (CCT), Ireland*
- 2020 *BSc (Honours) in Information Technology, College of Computing Technology (CCT), Ireland*
- 2014 *Master – Complementary computer studies, Claude Bernard Lyon 1 University, France*
- 2011 *MSc in Earth sciences, Simón Bolívar University, Venezuela*
- 2007 *Geophysical Engineer, Simón Bolívar University, Venezuela*

Honors and awards

- 2021 Employee of the year (IDG Direct, Dublin).
- 2020 Diploma in Predictive Data Analytics completed with an overall grade of **Distinction** (CCT College, Dublin).
- 2011 Master thesis project graded as **Excellence Honor Mention** (Simón Bolívar University, Caracas).