

# 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<sup>A</sup>T<sub>E</sub>X
- ◆ 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, SQLlectron
- ◆ **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.

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

Present



2020

### Freelance Developer

- Development of crypto trading bots using **Python**: Historical and real-time analysis of cryptocurrency data to forecast price movements. The data analyzed include prices, volumes, cryptocurrency news, etc.
  - Real-time response optimization of crypto news (tweets/web content) through a multi-location server architecture.
  - **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

I am responsible for creating new sales prospects and carrying out b2b calls to prospective clients. Building and maintaining a professional relationship with IT Managers is a key part of my role. This enables me to identify their needs and next investments. The gathered information is required by our clients (Largest Tech Companies) and used in the next step of the sales process.

- I work in different markets and contact clients in French, English, and Spanish: France, Belgium, Spain, Middle East.
- Train new team members and provide ongoing training:
  - Motivating, developing, and training staff at a BANT level.
  - Script delivery and how to effectively communicate.
- Collaborating with the Team Manager in the recruitment process of new agents.

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](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 - Funindes 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.

- My responsibilities included:
  - \* **Machine Learning algorithms (Regression, classification)** for Seismic/Borehole data Analysis.
  - \* **Python / MATLAB / Shell script programming** for Seismic data analysis/Signal analysis (Seismic data processing and modeling).
  - \* 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.

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

2010

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2008

**Simón Bolívar University, Venezuela****Academic Assistant - Geophysics 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**

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

**Honors and awards**

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