


# Marcial Alejandro Bernal Arredondo

## Junior Python Developer (Backend / Full Stack)

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 Portfolio: <https://marcial-bernal-portfolio-python.streamlit.app/>

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## Professional Profile

Junior Python Developer focused on backend development and data-driven applications.

All of my projects are personal projects, built from scratch, which allowed me to develop strong criteria in software architecture, separation of responsibilities between frontend and backend, and service consumption through drivers and intermediate layers.

I am seeking an opportunity where I can apply these technical foundations and continue growing in process automation and enterprise systems development.

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## Technical Skills

### Backend

- Python 3.8+
- Django · Fast API
- Backend project structuring
- Frontend / backend separation using layers and drivers
- External API integration

### Data

- SQL (PostgreSQL, SQLite)
- Basic use of schemas and relationships
- Simple queries for data analysis
- Pandas

### Visualization

- Streamlit
- Plotly Express
- Basic dashboards

### Web Scraping

- BeautifulSoup4
- Data extraction for analysis purposes

### Deployment & Tools

- Git · GitHub
- Basic Linux
- PythonAnywhere
- Render
- AWS (basic level)

# Personal Projects

## AI Gym Virtual Assistant

Python · Streamlit · OpenAI API · Database

- End-to-end development of an interactive assistant built from scratch.
- Design of the conversation flow, prompts, and model tools.
- Backend implementation with CRUD operations, database schemas, and routes.
- Streamlit interface connected to the backend through intermediate layers.

### Key learnings:

- Real-world integration of external APIs.
- Backend organization and separation of responsibilities.
- Persistent data handling for business logic.
- Reading technical documentation and problem-solving through trial and error.

Demo / Portfolio: <https://marcial-bernal-portfolio-python.streamlit.app/>

Code:

[https://github.com/MarcialBernal/Portfolio-Python-Backend/tree/main/services/gym\\_assistant](https://github.com/MarcialBernal/Portfolio-Python-Backend/tree/main/services/gym_assistant)

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## Inventory Management System

FastAPI · Streamlit · SQL

- CRUD system for inventory control.
- Basic table and relationship design.
- Frontend decoupled from backend through a REST API.
- Focus on code clarity, organization, and maintainability.

### Key learnings:

- REST API design.
- Structuring a scalable backend.
- Data handling for simple queries and reports.

Demo / Portfolio: <https://marcial-bernal-portfolio-python.streamlit.app/>

Code: <https://github.com/MarcialBernal/Portfolio-Python-Backend/tree/main/services/warehouse>

## CSV Data Visualization Dashboard

Streamlit · Pandas · Plotly Express

- Application for uploading CSV files and analyzing data.
- Generation of interactive charts for exploratory data analysis.

### Key learnings:

- Basic data manipulation and analysis.
- Clear data visualization for decision-making.
- Focus on usability for internal tools.

Demo / Portfolio: <https://marcial-bernal-portfolio-python.streamlit.app/>

Code: [https://github.com/MarcialBernal/Portfolio-Python-Frontend/blob/main/pages/04\\_%F0%9F%93%8A\\_Data\\_Visualization.py](https://github.com/MarcialBernal/Portfolio-Python-Frontend/blob/main/pages/04_%F0%9F%93%8A_Data_Visualization.py)

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## Mercado Libre Web Scraper

Python · BeautifulSoup4

- Product data extraction in a local environment.
- Project deployed with limitations due to site blocking.
- Ongoing migration toward direct integration with the official Mercado Libre API.

### Key learnings:

- Understanding technical and legal limitations of web scraping.
  - Adapting technical solutions to real-world constraints.
  - Documentation-driven development and code refactoring.
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## Full Stack Website (Portfolio / Web App)

Django · HTML5 · CSS3 · Bootstrap

- Complete website developed from scratch.
- Frontend implementation using HTML and CSS without pre-built templates.

- Django backend with routes, views, and server-side logic.
- Deployment in a production environment.

#### **Relevant skills developed:**

- Real Full Stack development (frontend + backend).
- Clear separation between presentation and business logic.
- Understanding the full lifecycle of a web application.

Live site: <https://marcial9328.pythonanywhere.com/>

Code: <https://github.com/TMestructuralDev/website>

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## **Core Competencies**

- Logical and structured thinking
  - Self-directed learning ability
  - Problem-solving through documentation and trial-and-error
  - Organization and responsibility
  - Clear communication of technical ideas
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## **Education**

### **Bachelor's Degree in Gastronomy**

-Universidad Autónoma de Durango · 2015

### **Software Development**

-Professional transition into software development through personal projects and self-directed learning.

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## **Languages**

- English: Intermediate (conversational and technical reading)
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## **Availability**

- Full-time
  - On-site
  - Immediate
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