MIGUEL ANGEL REYES PRADO

FULL STACK PYTHON DEVELOPER

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PROFESSIONAL PROFILE

Nanotechnology engineer and full-stack Python developer with experience building RESTful APIs with Django, version control with Git, and dynamic interfaces with React, HTML, CSS, and JavaScript. Familiar with testing, clean code principles, and DevOps practices with Docker. My certifications in semiconductors, data science, IoT, home automation, 3D design, and robotics allow me to bring a multidisciplinary perspective. I have participated in projects where I strengthened adaptability, initiative, and teamwork, contributing to innovative technical solutions and effective problem-solving.

EDUCATION

▪ EBAC | 2024-2025

Full Stack Python Developer.

▪ Universidad de Guadalajara | 2021 - 2025

Nanotechnology engineering.

RELEVANT PROJECTS

- **Renta de Trajes MR — Comprehensive System 2025.**

Developed a web-based point-of-sale platform for suit rentals and sales, with inventory management, user control, and issuance of digital receipts.

● **Django** for creating the backend, models, and RESTful API.

● **React** for the interactive user interface and rendering of product images.

● **SQLite3** as a database for recording dates, models, prices, and availability.

● **Integration with WhatsApp** for automated sending of tickets or catalogs to the customer.

● **Authentication and role control** for access management and system security.

- **Customer registration system MR — 2025.**

I developed a web application for registering, tracking, and managing interested customers, with API integration and automated communication via WhatsApp.

● **React** for a dynamic and intuitive user interface.

● **Django REST Framework** for creating endpoints and backend logic.

● **Form authentication and validation** to ensure data integrity.

● **Integration with WhatsApp API** for automated catalog sending and personalized tracking.

- **Basic e-commerce models: users and products in Django — 2025.**

Develop a basic e-commerce project using Django. This includes creating user and product models, managing relationships between them, and building the initial structure for a scalable online store application.

● **Django** for defining relational models of users and products.

● **Use of Django's ORM** to manage CRUD operations (create, read, update, and delete).

● **Configuration** of the administration panel (Django Admin) to view and manipulate data.

● **Design** of the basic structure intended to scale into a complete e-commerce system.

- **Authentication in Django REST Framework — 2025**

I developed a basic authentication system using the Django REST Framework, allowing user validation and endpoint protection with secure credentials. This project lays the foundation for implementing more advanced authentication methods such as JWT or Token Authentication.

● **Django REST Framework** for creating and securing endpoints.
● **Implementation of basic** authentication (`BasicAuthentication`).
● **Configuration of permissions** (IsAuthenticated) to restrict access to registered users.
● **Credential validation** and handling of secure HTTP responses.
● **Scalable basis** for integrating more robust authentication methods.

- **Django Frames — 2025**

I developed a basic API query project using Django, focused on consuming and visualizing external data within a web application. This project served as a foundation for understanding the integration of external services and the handling of JSON responses.

● **Django** for backend environment configuration and view management.
● **Consumption of external APIs** using the requests library.
● **Processing and visualization of data** obtained from public endpoints.
● **Handling JSON responses** and integration into HTML templates.
● **Base for projects** requiring integration with third-party services.

- **Registering models in the Django Admin — 2025**

I implemented basic order template logging in the Django admin panel, allowing users to view, create, and manage records directly from the administrative interface. This project reinforces the use of the ORM and the Django Admin configuration for data management.

● **Django** for creating and registering custom models.
● **Configuring the admin panel** (admin.py) to view and manipulate data.
● **Implementing custom fields** and relationships between models.
● **Hands-on practice focused on efficient data management** from the Django interface.
● **Basis** for expanding data management in e-commerce or inventory applications.

- **AI Chatbot — 2025**

I developed an interactive chatbot using pure JavaScript, focused on handling dynamic conversations and simulating automated responses based on user input. The project demonstrates the use of conditional logic, DOM manipulation, and event handling to create a seamless conversational experience.

● **JavaScript** for the chatbot's core logic and message processing.
● **DOM manipulation** to display real-time responses.
● **Event handling** (input, click) to capture user interactions.
● **Implementation of dynamic responses** using conditional structures and arrays.
● **Basis** for integrating real AI or external APIs in more advanced versions.

- **PokeApp — 2025**

I developed an interactive web application using TypeScript to display Pokémon information obtained from a public API. The project focuses on consuming external data, strict typing, and dynamic rendering of components.

● **TypeScript** for creating a strongly typed and maintainable application.
● **Data consumption** from the PokeAPI using fetch or Axios.
● **Dynamic rendering** of information in the web interface.
● **Type and interface management** to ensure data consistency.
● **Basis** for integrating frameworks like React or Vue in future versions.

- **Smart refrigerator IoT — Samsung Innovation Campus 2023–2024.**

Design an automated refrigeration system with food detection sensors and a disinfection process controlled by a Raspberry Pi.

● **Raspberry Pi** for central control and sensor communication.

● **Proximity and temperature sensors** for food detection and internal condition monitoring.

● **Python** for system programming and disinfection process management.

● **IoT technology** for data transmission and remote device control.

SKILLS

- Leadership.
- Teamwork.
- Problem-solving.
- Creativity.
- Initiative.
- Dynamism.
- Efficiency.
- Research experience.
- Lab experience.

- React.
- Django
- HTML5
- CSS
- JavaScript
- Redux
- Node.js
- Python
- SASS

- RESTful APIs
- MySQL
- Responsive design
- SQLite
- GitHub
- Docker
- State management, authentication, routes

- Angular
- Axios
- IoT
- Testing
- TypeScript

LANGUAGES

- English – B2

- German – B1

COURSES AND CERTIFICATIONS

● Full Stack Python Developer. EBAC. 2023-2025

● Diploma in Data Science. Instituto Politécnico Nacional de México. 2024

● Samsung Innovation Campus. Universidad de Monterrey. 2023–2024