

Jeremy Josue Delgado Solorzano

Python Backend Developer — Django / FastAPI — REST APIs — PostgreSQL — Docker — AI Applied to Backend

jeremyjdsoftware@gmail.com — +593 963146039 — Ecuador (Available for remote work)

GitHub — LinkedIn — Portfolio

Summary

Python Backend Developer focused on building REST APIs with Django, FastAPI, PostgreSQL, and Docker. Experience developing systems with clean architecture, JWT authentication, automated testing, and cloud deployments.

I have integrated AI into backend products using LLM APIs, tool-based agents, MCP, risk scoring, and explainable AI, applying these skills in real-world projects involving fraud detection, sports management, and real-time platforms.

Technical Skills

Backend: Python, Django, Django REST Framework, FastAPI, Flask, REST APIs, GraphQL

Architecture: Clean Architecture, Hexagonal Architecture, Microservices, CQRS, Repository Pattern, Service Layer

Databases: PostgreSQL, MongoDB

DevOps & Cloud: Docker, CI/CD, Git, GitHub, Azure, Render, Vercel, Google Cloud Run, Supabase

AI Applied to Backend: LLM APIs, OpenAI API, Gemini API, MCP, AI agents, Explainable AI, risk scoring

Testing: pytest, unit testing, integration testing

Practical Experience

Backend Development and Applied AI Projects

2024 – Present

Development of backend systems and functional prototypes oriented toward real-world products, integrating APIs, authentication, business logic, databases, automated testing, cloud deployment, and applied AI components.

- Built backend APIs with Python, Django, FastAPI, and Rust, applying clean architecture, service layers, and domain-oriented patterns.
- Implemented JWT authentication, access control, business validations, PostgreSQL persistence, and automated testing.
- Integrated LLMs and AI agents for information analysis, scoring, workflow automation, and natural language responses.

Featured Projects

RastroSeguro — Explainable AI Anti-Fraud Copilot for Insurance Companies

2026

FastAPI — Python — OpenAI API — MCP — Explainable AI — Azure

Links: Live Demo — GitHub — *hackIAthon 2026 — Aseguradora del Sur Challenge*

- Developed the FastAPI backend to analyze insurance claims and generate a risk score from 0 to 100 with traceable explanations.
- Implemented business rules, atypical behavior detection, and similarity analysis between reports to prioritize potential fraud cases.
- Built an MCP-based AI agent capable of querying backend tools and answering business questions in natural language.
- Applied explainable AI principles by keeping the final decision under human analyst control and showing concrete evidence for each alert.

RegistroBet — Sports Betting Management Backend API

2026

Django REST Framework — PostgreSQL — Docker — JWT — pytest — Render

Links: Live Demo — GitHub

- Designed and implemented a production-ready REST API using Django REST Framework and Clean Architecture principles.
- Built an authentication and authorization system with JWT, email verification, and role-based access control.
- Applied patterns such as Repository, Service Layer, DTOs, and Value Objects to separate domain, application, and infrastructure layers.
- Implemented more than 257 unit and integration tests with pytest, reducing the risk of regressions.

- Containerized the application with Docker and deployed it on Render with PostgreSQL on Supabase.

Love4Pets — Pet Adoption Backend Platform
Rust — Axum — SeaORM — PostgreSQL — GraphQL — WebSockets — Gemini API
GitHub Repository

2025

- Collaborated on backend development using Rust and Axum following Hexagonal Architecture principles.
- Designed and implemented a GraphQL API for flexible and efficient data queries.
- Developed REST endpoints and domain entities using SeaORM and PostgreSQL.
- Implemented real-time features using WebSockets.
- Built an AI chatbot using MCP, allowing Gemini to dynamically select and execute backend tools.

Leadership & Activities

ULEAM Artificial Intelligence Club — Project Development Lead
Led technical projects and organized workshops to promote collaborative learning in artificial intelligence, software development, and prototype building.

2024 – Present

Education

Software Engineering
Universidad Laica Eloy Alfaro de Manabí (ULEAM), Ecuador

2023 – Present

Languages

Spanish: Native
English: B1 – Intermediate