



Julio Rodriguez

AI Developer | Generative AI Engineer | NLP Specialist

GPT-4 / Claude / LangChain · Python & FastAPI · Prototyper of AI Solutions

LATAM | Remote-First | GB English C2 | AR Spanish Native

[GitHub] | [LinkedIn] | [Email]

Professional Summary

AI Engineer specializing in synthetic data generation, LLM pipelines, and Python-based data automation. Experience designing and validating structured and unstructured synthetic datasets (tables, time-series, PDFs, OCR, JSON). Skilled in generative modeling, statistical resampling, masking, and privacy-compliant data simulation.

Hands-on in LLM structured output (JSON/Pydantic), RAG pipelines, semantic extraction, annotation, and model evaluation. Strong ability to work in notebook environments and collaborate with AI Data Engineers and frontend teams to integrate synthetic data into GenAI applications.

Core Skills

Synthetic Data & Generative Modeling

- Data simulation (tabular & time-series)
- SDGym · Faker · Synthetic sampling
- Statistical resampling · anonymization · masking
- GANs / VAEs (PyTorch basics)
- Privacy & compliance awareness

Python, LLMs & GenAI

- Python (pandas · NumPy · scikit-learn)
- LangChain · Pydantic · FastAPI
- GPT-4 · Claude · Gemini · Hugging Face

-  **Prompt engineering · structured output**

-  **RAG · embeddings · semantic search**

Data Engineering & Visualization

-  **Jupyter · Databricks familiarity**

-  **Matplotlib · Seaborn · Plotly**

-  **Power BI · Streamlit (basic)**

-  **SQL · Regex · logging & auditing**

Cloud & DevOps

-  **Azure: Synapse · Data Lake · Data Factory**

-   **Docker · GitHub Actions · REST APIs**

-  **MLflow · CI/CD pipelines**

Selected Projects

Synthetic Data Generator (Python + SDGym + Faker)

- Generated privacy-safe synthetic datasets with statistical fidelity.
- Used distribution matching (KS tests) and drift visualization (Seaborn/Plotly).
- Applied masking, anonymization, and controlled noise injection.

LLM Structured Extraction Pipeline – LangChain + Pydantic

- Built JSON/Pydantic schema-enforced extraction from PDFs + messy text.
- Improved robustness with fallback chains and validation logic.
- Deployed via FastAPI + notebook evaluation suite.

AI Data Evaluation – RWS (MetaAI & Google DeepMind)

- Annotated multimodal datasets (text + images + OCR).
- Classified, tagged, and enriched data for safety, alignment, and translation quality.

- Evaluated reasoning, tone, factuality, and structured output compliance.

Model Benchmarking Toolkit – G2AI

- Built CLI tools for LLM scoring, regression tests, and dataset scaffolding.
- Integrated evaluation into CI/CD with GitHub Actions.
- Supported synthetic dataset creation for model comparisons.

Document AI Processing (PDFs, OCR, Time-Series)

- Built ingestion + segmentation pipelines.
 - Designed dashboards to track extraction accuracy and drift.
 - Used embeddings + LLMs for structured extraction and normalization.
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Technical Highlights

-  AI Engineering: LLM applications, prompt design, fine-tuned workflows
 -  Backend Dev: Python (FastAPI), API design, Docker, testing & CI/CD
 -  NLP: RAG systems, embeddings, transformers, semantic QA
 -  DevOps: GitHub Actions, Docker, version control for prompts and models
 -  Communication: Technical documentation, stakeholder reporting, explainer docs
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Experience

AI Data Evaluator – LLM Response Rating (Confidential Client)

 RWS –  Remote — 2024–Present

- 🧠 Evaluated and qualified AI-generated responses in Spanish (es-419) for linguistic accuracy, reasoning, and contextual consistency.
- ⚖️ Compared multiple model completions per prompt to assess coherence, factual alignment, and tone suitability.
- 🔎 Applied detailed evaluation guidelines to ensure output quality and model reliability.

Prompt Engineer & Annotation Specialist – Multimodal AI Project (Confidential Client)

 RWS –  Remote — 2024–Present

- 🔥 Designed and refined prompt-based evaluations for advanced AI systems, including text and image analysis tasks.
- 🖼 Conducted multimodal annotation to enhance visual comprehension and stylistic adaptation in large-language models.
- 🛡️ Calibrated AI responses for complex prompts to improve contextual accuracy and overall system performance.

Translation & Annotation Specialist – Machine Translation & OCR Evaluation (Confidential Client)

 RWS –  Remote — 2024–Present

- 💬 Reviewed and validated English–Spanish (Latin American) translations for linguistic precision, fluency, and tone accuracy.
- ES Performed OCR-based annotation and subtitle synchronization to support multilingual AI translation systems.
- 📄 Contributed to refining model performance in large-scale evaluation pipelines under confidentiality agreement.

AI Model Trainer – Outlier / Scale AI

 Remote — 2024–Present

- ✨ Created structured prompt examples for LLM behavior fine-tuning and testing.
- 🔎 Validated model completions for factual accuracy, logical soundness, and stylistic tone.

- Authored evaluation reports, documentation, and test sets for diverse AI use cases.
 - Developed **MLOps and CI/CD pipelines** for continuous model evaluation, monitoring, and retraining across cloud environments.
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Software Engineer – G2AI

- Remote — Oct 2024–Present
- Built CLI tools and backend APIs for GenAI model benchmarking.
 - Integrated prompt-based tests and evaluation metrics into CI/CD pipelines.
 - Focused on automation, onboarding, and dataset scaffolding for junior AI contributors.
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Head of Performance Analysis – VO2Max / Optimus Gym

- Hybrid — 2020–2023
- Automated analytics dashboards and reports using Python and Power BI.
 - Collaborated with sports scientists on forecasting and performance modeling.
 - Acted as data engineer, analyst, and reporting lead for athlete progress systems.
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Education

BSc in Data Analysis and Management *(In Progress)*

National University of San Luis, Argentina — 2023–2028

Higher Degree in Physical Training Evaluation

Universidad Católica de Córdoba — 2021

High School Diploma in Exact Sciences with Economics

Escuela de Comercio N°18 — 2015

Certifications

-  Prompt Engineering for LLMs – DeepLearning.AI
 -  LangChain for LLM App Development – LangChain.dev
 -  Data Scientist Career Path – Codecademy
 -  Software Engineering in Python – Codecademy
 -  Business Intelligence & SQL Analyst – Datacamp
 -  Azure AI Fundamentals (AI-900) – Microsoft
 -  Data Engineer & Full Stack Dev (In Progress) – Codecademy
 -  Machine Learning, NLP, and Inference Specialist Tracks
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Languages

-  Spanish: Native
 -  English: Advanced (C2 – TOEFL Certified)
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Portfolio

-  GitHub: Custom LLM evaluators, RAG demos, AI agent templates, prompt tools