

MIGUEL GUILLÉN

Analytics Engineer — SQL · Python · Data Modeling · dbt · Power BI

Santo Domingo, Dominican Republic · Remote (UTC-4, full US time-zone overlap)

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PROFESSIONAL SUMMARY

Analytics-focused data professional with 5+ years building the full path from raw, multi-source data to trusted reporting layers in national emergency services (9-1-1) and financial intelligence (AML). Designed production ETL pipelines (SQL Server, Excel, REST APIs), dimensional models, and reusable semantic layers in Power BI (TMDL, calculation groups) — cutting executive reporting time by 40% and reducing data errors through systematic quality validation. Expanding into the modern data stack with dbt and Apache Airflow. Fluent in English and Spanish.

CORE SKILLS

- **Data Transformation & Pipelines:** SQL, ETL design (SQL Server, Excel, REST APIs), data modeling (star schema, tall fact tables), data quality & validation, dbt and Apache Airflow fundamentals
- **Programming:** Python (pandas, NumPy, FastAPI), Git/GitHub, REST APIs
- **BI & Semantic Layer:** Power BI (DAX, Power Query, Tabular Editor, TMDL/PBIP), calculation groups, KPI frameworks, Tableau
- **AI & Automation:** Claude & OpenAI APIs, LLM agents, RAG, workflow automation, web scraping (Playwright)
- **Languages:** Spanish (native), English (fluent), Mandarin Chinese (conversational)

PROFESSIONAL EXPERIENCE

Data Analyst — Payroll & Data Control — National 9-1-1 Emergency System *Mar 2024 – Present*

- Consolidated 5+ data sources (SQL Server, Excel, APIs) into Power BI executive dashboards for national emergency operations, **cutting executive reporting time by 40%**.
- Designed and maintained ETL pipelines integrating SQL Server, Excel, and REST API sources, with data-quality validation at each stage.
- Built Python and LLM-powered automation workflows for recurring reporting and document generation, **increasing operational efficiency by 25%**.
- Shipped internal web applications — real-time fleet (AVL) monitoring with role-based access and a workforce scheduling system for emergency call centers — adopted by daily operations.
- Defined KPI frameworks and reporting standards with HR, Operations, and IT stakeholders, standardizing metrics across departments.

Data Analyst — Financial Intelligence — Financial Intelligence Unit (FIU) *Feb 2021 – Feb 2024*

- **Improved financial forecasting accuracy by 20%** through advanced analysis and redesigned reporting models.
- Developed Power BI dashboards and DAX measures used by executive leadership for AML strategic decision-making.
- Implemented data-quality controls and validation frameworks across multi-source financial datasets, reducing reporting errors.
- Produced strategic intelligence reports supporting national anti-money-laundering compliance initiatives.

SELECTED PROJECTS

- **NEXUS Autonomous — Multi-Agent Data Pipeline:** Python/FastAPI platform orchestrating local LLMs (Ollama), Playwright automation, and 6 API/scrapper data sources with matching, scoring, and SQLite persistence. Packaged as one-click Windows/Mac installers for non-technical users.
- **Power BI Automation Agent:** Tooling that parses PBIP/TMDL semantic models, audits them, and generates DAX measures programmatically — automating repetitive BI development work.
- **Procurement Radar:** Automated pipeline querying a government open-data API, scoring tender opportunities against business criteria, and producing daily WhatsApp-ready digests for a small business client.

EDUCATION

- **MBA, Strategic Management** — Pontificia Universidad Católica Madre y Maestra (PUCMM)
- **BBA, Business Administration** — Pontificia Universidad Católica Madre y Maestra (PUCMM)

PROFESSIONAL DEVELOPMENT

PL-300 Microsoft Power BI Data Analyst (in progress) · dbt Fundamentals · Apache Airflow Fundamentals · Machine Learning Specialization (Stanford/DeepLearning.AI) · LangChain for LLM Application Development