Gerwin Lambraño Torres

Python Backend Engineer

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SUMMARY

Backend engineer with 3 years of experience designing Python services and data systems and taking them safely to production on-premise, on Azure and on Google Cloud: REST APIs, event-driven and layered architectures, unit and integration tests and CI/CD. Shipped production systems for Colombia's National Planning Department and Pereira City Hall.

SKILLS

Languages and databases: Python, SQL, Bash, PostgreSQL, MySQL, NoSQL
Backend and APIs: FastAPI, REST/RESTful APIs, Webhooks, GraphQL, SQLAlchemy, Alembic, Pydantic, JWT authentication
Architecture: Microservices, Event-driven architecture, Message queues, Layered architecture, SOLID, Design patterns
Cloud and DevOps: Docker, Linux, CI/CD (GitHub Actions, Azure DevOps), Azure (App Service, Service Bus, Key Vault), Google Cloud (Cloud Run, Cloud SQL), Infrastructure as Code, Traefik
Testing and quality: pytest, Unit and integration testing, Code reviews, Git
Data and AI: pandas, ETL pipelines, LLM integration (RAG), OpenAI API, Streamlit
Soft skills: Requirements gathering, Client communication, End-to-end ownership, Working under pressure, Mentoring

EXPERIENCE

Software Engineer — *oiDATA*, Pereira, Colombia (Hybrid) May 2024 - Present

- **National Planning Department (DNP), 2026:** designed and built the nationwide WhatsApp channel that connects citizens to the DNP's LLM assistant (RAG) to consult the National Development Plan 2026–2030; first version in production one week after kickoff.
- Event-driven architecture for national traffic peaks: HMAC-signed REST webhooks, Azure Service Bus with one session per citizen, background workers, retries with backoff and rate limiting; Infrastructure as Code, Key Vault, alerts and 90 unit and integration tests in CI.
- **Pereira City Hall, 2025–2026:** led the public policy tracking system (MySQL data model, role-based access, validation at capture, public dashboard): in 2025, 58 officials from 19 agencies reported on 14 policies and more than 1.1M citizen services.
- Migrated it from Google Cloud Run to the city's on-premise Linux servers with Docker, Traefik (HTTPS) and continuous deployment; an automated check keeps the dashboard and its reports consistent across 106 scenarios.
- **The Nest Agency LLC (USA), 2025–2026:** consolidated 1,400 scattered client records into 1,200 deduplicated contacts synced across platforms, and used Monday.com's GraphQL API to feed an internal system with accurate client data.
- **Spare-parts importer, 2026:** co-built an ETL pipeline (data cleaning, demand estimation, best-price selection) that cut each purchase order from about 28 hours of spreadsheet work to about 5.

Junior Backend Developer — *Delphi Analytics*, Pereira, Colombia Nov 2022 - Jul 2023

- Co-built a cross-platform desktop app (Python, PySide, QML) backed by a FastAPI service, used by staff of Colombia's House of Representatives to search session transcripts.
- Built FastAPI endpoints to publish transcription files and contributed to the first OpenAI Whisper implementation.

PROJECTS

reorder | github.com/gerwintorres/reorder | Personal project: REST API that estimates weekly product demand. FastAPI, PostgreSQL, SQLAlchemy, Alembic, JWT, layered architecture, pytest against real PostgreSQL, GitHub Actions CI, Docker, Google Cloud Run.

TEACHING AND SPEAKING

Python Instructor, Universidad Tecnológica de Pereira (May 2025 - Present): Python for data analysis, 4 cohorts, 123 hours.
Panelist, 4th Data Science Symposium, UTP (2026): data science and AI for disaster management.

EDUCATION AND LANGUAGES

Systems and Computer Engineering (Engineer's degree), Universidad Tecnológica de Pereira 2020 - 2025
Certification: Google, Tools of the Trade: Linux and SQL 2025
Languages: Spanish (native) | English (B1+, training toward C1)