Frederico Gago – Python Backend Developer

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Summary

Backend developer with 4+ years of experience building automation systems, REST APIs, and ERP integrations in the accounting/finance domain. Proficient in Python, FastAPI, SQLModel, Playwright, and Docker. Designed pipelines that save ~1.500 h/year (~1 FTE), reduced fiscal errors, and ensured compliance with government portals (AT, Segurança Social). Advocate of Clean Code, SOLID, and CI/CD practices. Looking to contribute to scalable backend systems in an international team environment.

Core Skills

• Languages & Frameworks: Python, FastAPI, REST APIs, SQLAlchemy/SQLModel, Pydantic
• Data & Databases: PostgreSQL, Pandas, Data Extraction (PDF, Excel, OCR)
• Automation & Testing: Playwright, Pytest, Celery, Task Scheduling
• Architecture & Practices: Clean Code, SOLID, Layered Architecture
• DevOps & Tools: Docker, GitLab CI/CD, Linux (Ubuntu/Tuxedo OS)
• Languages: Portuguese (Native), English (B2 – Upper Intermediate)

Professional Experience

Confere — Developer & Operations

Lisbon, PT | 2021 – Present

• Designed and deployed automation workflows reducing ~1.500 h/year (~0.9 FTE).
• Built a bulk ERP upload system (Python, FastAPI, SQLModel) processing 120k+ records/year, saving ~12.5k€/year.
• Automated compliance tasks (DRI/DMR checks, tax receipts, inventory submissions), cutting manual workload during peak fiscal periods.
• Developed Playwright scrapers for AT and Segurança Social portals with 98% uptime.
• Introduced Dockerized dev environments and GitLab CI/CD pipelines → improved reproducibility.
• Applied Clean Architecture principles (services, repositories, coordinators) → maintainable, testable systems.

Virtualnauta — Junior Software Developer
Lisbon, PT | 2020 – 2021

• Built web scraping frameworks and automation tools tailored for accountants.
• Developed APIs and asynchronous services using FastAPI + Playwright.
• Implemented testable, maintainable code aligned with industry best practices.

Earlier Roles – Operations Analyst & Administrative Assistant
Confere, 2015 – 2020

• Supported accounting/HR/finance processes and led process optimizations (invoicing, procurement, reporting).
• Sparked transition into software development by designing small automation tools that reduced repetitive work.

Education
• ISCTE — Computer Science (BSc, in progress, 2024–2027)
• Continuous Learning: Hyperskill Java (current), Clean Architecture, FastAPI advanced patterns

Certifications
• SQL (Basic) — HackerRank
• Pythonic Patterns — ArjanCodes
• CS50 — Harvard University
• Primavera BSS SQL Server – Advanced

Projects & Online Profiles
• LeetCode Solutions: github.com/fredericogago/leetcode
• PDF → Excel Automation Tool: CLI app (FastAPI + Camelot + OCR fallback)
• ContabAPI: internal Python framework for ERP/RH/Gov automations (Clean Architecture, async services)
• Blog: fredericogago.github.io