

Diogo Alexandre Rodrigues

Python Engineer | Automation & Operational Systems | FastAPI · Next.js

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 - 🌐 Portfolio & Case Studies: <https://diogo.inf.br>
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Summary

I build software for people who are tired of manual work.

Professionals in any field shouldn't spend their days reconciling spreadsheets, re-entering data between disconnected systems, or running repetitive routines that software could handle in seconds. That belief has driven every system I've built.

I started my career inside an accounting and automation company, where I saw firsthand how much valuable operational time was lost to manual processes. I started building systems to close that gap — one workflow at a time.

Software Engineer with 4+ years of experience developing Python-based automation systems, data pipelines, and web applications for complex operational environments. Specialized in translating business requirements into reliable, maintainable software that delivers measurable impact.

Core Skills

Programming & Data

- Python
- Data Processing
- ETL Pipelines
- Pandas
- CSV / Excel Processing
- SQL

Backend & Systems

- FastAPI
- REST APIs
- System Integration
- Data Validation Pipelines

Automation

- Process Automation
- Robotic Process Automation (RPA)
- PyAutoGUI
- Legacy System Automation

Web & Interfaces

- React

- Next.js
- TypeScript

Engineering Practices

- Clean Architecture
 - Business-driven software design
 - Code quality and maintainability
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Professional Experience

Software Engineer | Automation & Financial Systems

Komcorp — Remote

Jan 2025 - Present

- Developed Python automation pipelines for payroll validation and financial data reconciliation
 - Integrated ERP systems (Questor) to generate structured Excel reports for operational auditing
 - Built web dashboards using React and Next.js for payroll analytics and operational metrics
 - Designed automation systems for digital certificate validation and compliance monitoring
 - Developed NFSe automation pipelines integrating government APIs and structured reporting
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Software Engineer | Full Stack & Automation

Supervisão Contabilidade

Jan 2024 - Jan 2025

- Built internal web applications using React, Next.js, and TypeScript
 - Developed data processing pipelines for payroll reports and fiscal validation
 - Implemented SPED reconciliation systems integrating multiple fiscal data sources
 - Replaced manual Excel workflows with automated validation systems
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Automation Engineer | Python

Komcorp

Apr 2023 - Nov 2023

- Developed desktop automation solutions using PyAutoGUI for legacy accounting systems
 - Automated workflows where no API integrations were available
 - Reduced manual operational workload through UI-based automation routines
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Automation Engineer | Data Integration

Supervisão Contabilidade

Mar 2021 - Mar 2023

- Built Python systems for fiscal data processing and reconciliation
 - Developed SPED parsing workflows and cross-validation routines
 - Implemented web scraping to collect fiscal data from government portals
 - Reduced up to ~3 hours of manual work per analyst through automation systems
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Selected Projects

SPED Cross-Check Automation

Automation system that parses SPED tax files, collects fiscal data from government portals, cross-validates multiple datasets, and generates Excel reconciliation reports for accounting workflows.

Impact: Reduced up to ~3 hours of manual work per analyst.

Payroll Accounting Mapper

Full-stack web application that processes payroll Excel reports, resolves accounting mappings per company and cost center, and generates accounting entries formatted for ERP import.

Stack: Python, FastAPI, PostgreSQL, Next.js, TypeScript

NFSe XML Automation Pipeline

Automation pipeline integrating with government APIs to download NFSe XML documents, extract structured data, and generate reports for auditing and reconciliation.

Education

Bachelor's Degree in Accounting

UniCesumar — 2021

Computer Science (incomplete)

Federal University of Santa Maria (UFSM)

Languages

Portuguese — Native

English — Intermediate (B1/B2)