

# LUCAS AVILA

## Software Engineer - Python / Backend

Python | FastAPI | PostgreSQL | REST APIs | Docker | SQLAlchemy | Next.js

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## PROFESSIONAL SUMMARY

Backend software engineer with 6+ years of experience in Python, PostgreSQL, and REST APIs. Track record in payment gateway and government service integrations, financial process automation, and large-scale platform migrations (50+ modules). Fullstack projects in production: lucasavila.dev. Working remotely since 2021 with async communication.

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## PROFESSIONAL EXPERIENCE

**XippTech** | São Paulo, Brazil (Remote) | Dec 2021 - Present

*Senior Software Engineer* | Aug 2023 - Present

- Designed and implemented 3+ REST API and Webhook integrations connecting the platform to external systems (payment gateways, government tax services, postal services), processing financial and fiscal data in production.
- Led platform migrations across 50+ custom modules, including dependency mapping and execution planning.
- Optimized high-volume PostgreSQL queries, improving response times on critical reporting modules.
- Conducted code reviews and provided technical mentorship to a team of 7-8 developers, establishing documentation standards and reducing rework by 30%.

*Mid-Level Software Engineer* | Dec 2021 - Jul 2023

- Developed backend features in Python and JavaScript for the financial module, delivering 10+ features in 2-week sprint cycles.
- Built REST API integrations connecting the platform to 2+ external systems within the finance squad, ensuring reliable data flow in production.
- Automated business processes that eliminated repetitive manual tasks for finance and operations teams of 30+ users.

**CIEL IT** | Barueri, Brazil (On-site) | Feb 2020 - Nov 2021

*Software Engineer / Implementation Analyst* | Promoted twice in 1.5 years

- Led end-to-end ERP implementations for enterprise clients: requirements gathering, fiscal and accounting configuration, and user training across 8+ modules (Purchasing, Sales, Contacts, Subscriptions, Manufacturing, Inventory, Accounting, Invoicing).
  - Developed process automations in Python and REST API integrations, including SAP workflow automations and cross-system integration scripts.
  - Provided technical and functional support via Zendesk with SLA tracking. Built an internal knowledge base to streamline onboarding for 10+ analysts.
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## TECHNICAL SKILLS

**Languages:** Python, JavaScript, TypeScript, SQL

**Backend:** FastAPI, Pytest, SQLAlchemy, Pydantic v2, Alembic, REST APIs, Webhooks

**Frontend:** Next.js, React, Tailwind CSS, shadcn/ui

**Database:** PostgreSQL

**Infrastructure:** Docker, Docker Compose, Linux, Git, GitHub, GitHub Actions, CI/CD

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## EDUCATION & CERTIFICATIONS

**B.S. Computer Science:** UNINOVE University, 2021-2024

**Languages:** Portuguese (Native), English (Professional Working Proficiency)

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## PROJECTS

**Expense Tracker** | app.lucasavila.dev | github.com/LucasAAvila/expense\_tracker

- Fullstack personal finance app with JWT authentication and MFA (TOTP).
- Stack: FastAPI + SQLAlchemy 2.0 async + Pydantic v2 + PostgreSQL + Alembic + Next.js + TypeScript + Tailwind CSS + shadcn/ui.
- Deployed: Railway (backend) + Vercel (frontend) + Neon (PostgreSQL) + CI/CD via GitHub Actions.

**Portfolio Site** | lucasavila.dev | github.com/LucasAAvila/portfolio

- Bilingual site (EN/PT-BR) with FastAPI backend serving project and skills data via API.
- Stack: Next.js App Router + React + TypeScript + Tailwind CSS + next-intl + FastAPI + PostgreSQL.