

Moisés Costa

Senior Python & AI Engineer

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Profile

Python backend engineer focused on production AI systems, document intelligence and workflow automation. Develops FastAPI services, structured LLM integrations and retrieval systems, connecting business requirements with data contracts, deployment and operational support.

Technical focus

Backend Python, FastAPI, Pydantic, SQLAlchemy, asyncio, REST APIs, Pytest.

AI systems RAG, pgvector, LangGraph, MCP, tool calling, structured outputs, OpenAI and Anthropic APIs.

Data and operations PostgreSQL, Redis, Docker, Linux, Google Cloud, GitHub Actions, Grafana.

Experience

Senior Python Engineer | AI & Backend Architecture

DETRAN-RJ | Apr 2019 - Present

- Joined the IT directorate in 2019 in systems analysis and technical documentation; moved to full-time Python engineering in 2022.
- Develops FastAPI services for asset management and administrative workflows, using Pydantic contracts, PostgreSQL and SQLAlchemy.
- Builds document extraction and semantic search workflows with LLM APIs, structured outputs and retrieval; supports Docker deployments, testing and monitoring.

Project Coordinator & Operations Analyst

DETRAN-RJ | Apr 2014 - Mar 2019

- Served as an IT reference for Internal Affairs and the Ombudsman office, translating operational needs into requirements, internal tools and technical documentation.

Selected work

Atlas Institutional semantic search with FastAPI, PostgreSQL and pgvector, connecting natural-language questions with structured records.

Logos Document intelligence for extracting structured JSON from complex legal documents, with validation before downstream use.

MSC AI Gateway Event-driven integrations connecting conversational AI, asynchronous webhooks and business workflows.

Education

Marketing | Estácio | Jan 2014 - Jan 2018