Leandro Rodrigues Jácome

Solutions Architect | Python

Goiânia, GO, Brazil | Remote from Brazil | Contractor or employee

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Professional summary

Software engineer with more than two decades in enterprise applications and hands-on Python experience across backends, APIs, data processing and machine learning. I work with FastAPI, Flask and Django, connecting software engineering to data pipelines and AI applications. My work includes implementation, solution design, quality analysis, proofs of concept, code reviews and mentoring.

My architecture work combines requirements analysis, technical tradeoffs, C4 modeling, integration design, modernization, code review and mentoring. I remain hands-on, connecting technical decisions to implementation and delivery.

Focused expertise

Python, FastAPI, Flask, Django and Pytest; SQL, PyTorch, PySpark, Hadoop and Airflow; MongoDB, BigQuery and Dataproc. RAG, embeddings, vector search, MCP, LangChain/LlamaIndex and LLM evaluation. Docker, Kubernetes, Google Cloud, AWS, Azure, CI/CD and observability. Clean Architecture, SOLID, DDD and C4.

Selected professional experience

CodeSpec — Full-Stack Developer

Jun 2026 – present | Remote

I build Python applications and services, enterprise integrations and AI features for clients. I develop RAG pipelines, embeddings, vector search and MCP integrations. I apply spec-driven development (SDD), automated tests and code reviews, and contribute to containerization, infrastructure as code and CI/CD.

Capgemini — Solution Architect

Oct 2021 – May 2026 | Remote

I combined architecture and hands-on development, including Python. For SEFAZ-AL, I worked on proofs of concept, code quality, engineering standards and mentoring, and used Python/PySpark, BigQuery, Dataproc and Cloud Composer in data platforms. I modeled requirements and technical decisions and supported cloud delivery and operations.

POUPEX — Full-Stack Developer

Dec 2017 – Jun 2020

I worked on financial applications, APIs and enterprise integration, built a test ecosystem for reactive services and supported Kubernetes and AWS deployment.

Relevant delivery cases

Client: INEP | Project: Higher Education Census

Context: Higher Education Census rules changed annually according to institutions and behavior in data. Contribution: I participated in Python and SQL work to identify patterns and generate rules, with neural algorithms in PyTorch and Hadoop in the project stack. Architecture: rules and their applications stored in MongoDB; Airflow orchestrated microbatches and validation. We prioritized storage and limited aggregations that offered no performance advantage in that context. Outcome: pattern identification, training and automatic generation of new rules within the validated workflow.

Employer: Capgemini | Client: SEFAZ-AL | Data platform

Context: Google Cloud data-platform initiatives and engineering guidance. Contribution: I worked on architecture, proofs of concept, code quality and mentoring, using Python/PySpark. Architecture: BigQuery, Dataproc and Cloud Composer/Airflow, with Pub/Sub in data initiatives. Outcome: architecture work and proofs of concept delivered.

AI projects | LLM evaluation

Context: assess response quality and changes to prompts/models. Contribution: I built an evaluation suite with a test set, model-as-judge scoring or an equivalent method, and regressions. Architecture: systematic evaluation of prompts and models. Outcome: evaluation suite built.

Education and selected certifications

PUCPR postgraduate programs: Data Science (Apr 2024–Jun 2025); Software Architecture and Cloud Engineering (Feb 2022–Apr 2023); Cybersecurity (Jan 2021–Feb 2022). Technology degree in Systems Analysis and Development — Senac (2020–2022). Technology degree in Networks and Internet — UNIP (2007–2009).

AWS Certified Solutions Architect – Associate; Google Associate Cloud Engineer; OCI Foundations Associate; Professional Scrum Master I; Professional Scrum Product Owner I.

Languages

Portuguese: native. English: advanced C1 for professional communication. Spanish: professional C1.