ALLAN SIMÕES ADEGAS

AI Engineer | Python, LLMs & Cloud | Production AI Systems

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SUMMARY

Software engineer who builds and deploys **production AI solutions** with **Python** and **LLMs**. At **BTG Pactual**, one of Latin America's largest investment banks, built **LLM agents** with **LangChain** that extract and validate data from unstructured financial documents and emails, saving **220+ hours/month** in a single application, and shipped **20+ intelligent workflows** saving **300+ hours/month** for Operations teams in 5 countries. Strong backend and cloud foundation: event-driven **AWS** serverless systems monitoring millions of dollars in transactions, and ownership of **Google Cloud** infrastructure, where I led a migration that cut costs by **~30%**. Used to working with cross-functional teams across countries.

TECHNICAL SKILLS

- **AI & LLMs:** LLM agents, RAG, structured data extraction, prompt engineering, LangChain, Claude (Anthropic) and GPT (OpenAI) APIs.
- **Backend:** Python (expert), FastAPI, async APIs, microservices, event-driven architecture, REST APIs, Node.js.
- **Cloud:** AWS (Lambda, SQS, DynamoDB, S3), Google Cloud Platform (GCP), serverless, cloud migration and cost optimization.
- **Automation & Integrations:** Intelligent workflows, enterprise API integrations, n8n, Playwright, BeautifulSoup, Pandas.
- **Delivery:** Docker, Git, CI/CD, GitHub Actions; React for internal tools and dashboards.

PROFESSIONAL EXPERIENCE

BTG Pactual | *Software Engineer (Operations)* | Jul 2025 – Aug 2026
Software Engineering Intern | Jul 2024 – Jul 2025

- **AI Email Reviewer (production):** Built an LLM-powered application that reads incoming emails with non-standardized financial data, extracts the relevant fields into structured output and reconciles them against an internal API, flagging mismatches for human review. Saved **220+ hours/month** (about BRL 14,000/month).
- **LLM Agents for Document Extraction:** Built agents with **LangChain** and LLM APIs that read and interpret unstructured financial documents for operations in **Brazil, Chile, Colombia and Mexico**, reducing manual work and increasing accuracy.
- **Intelligent Workflows at Scale:** Delivered **20+ automated workflows** in production, saving **300+ hours/month** for Operations teams across LATAM.
- **Production Infrastructure:** Built fault-tolerant, event-driven microservices on **AWS** (Lambda, SQS, DynamoDB) to monitor **millions of dollars in transactions**, with payload backups for zero data loss and reprocessing.
- **Backend & APIs:** Developed async APIs with **FastAPI** on AWS Serverless, focused on high availability and low latency, plus **React** dashboards for risk and operations analysts.

The Soil Company | *Software Engineer (Cloud, Automation & Platform)* | Aug 2026 – Present

- **Cloud Migration:** Led a complete migration of the company's cloud infrastructure, cutting cloud costs by approximately **30%**.
- **Cloud Ownership:** Own the platform's infrastructure on **Google Cloud**, organizing projects, access and resources for reliability, governance and cost control.
- **Platform & Automation:** Core engineer of the company's agricultural consulting platform; build automations and service integrations for internal processes.

Freelance Projects | *Integration & Automation Developer* | 2023 – Present

- Integrate third-party APIs and services for clients using **n8n** and Python, and build end-to-end web systems with Python backends and React interfaces.

Copel (Paraná State Energy Company) | *Innovation & UX/UI Intern* | Feb 2023 – Mar 2024

- Joined after winning the company's first hackathon (1st place) with a smart grid solution; redesigned app flows based on usability tests.

EDUCATION

- **B.S. in Computer Engineering**, Federal University of Technology - Paraná (UTFPR), 2025

LANGUAGES

- **Portuguese:** Native. **English:** Professional working proficiency. **Spanish:** Intermediate (LATAM projects).