

# Viviane Alves de Oliveira

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## SUMMARY

AI Developer with 9+ years of experience in Python and backend development, specializing in building robust, secure APIs and integrating AI/ML models into production. Proficient in Python frameworks like Flask/Django and knowledge in large language models (LLMs), including deployment and fine-tuning for AI solutions. My database experience includes PostgreSQL and Google Big Query, and I am skilled in using Git and Google Cloud Platform (GCP). I have a strong understanding of Object-Oriented Programming, SOLID principles, Clean Code practices, and Design Patterns. Adept at collaborating with teams to deliver high-performance, scalable AI-driven systems. Currently available part-time until April 2025 due to ongoing studies in AI, after which I am available full-time.

## EDUCATION

### AEC – Artificial Intelligence and Machine Learning

LaSalle College

2023 – Present

Montreal, Canada

### MBA in Information Technology Governance

University Center ICESP

2010 – 2011

Brasilia, Brazil

### Degree in Data Processing Technician

Union Education of Brasilia - UNEB

2007 – 2010

Brasilia, Brazil

## PROFESSIONAL EXPERIENCE

### Python Developer

Globant

2022 – 2023

Brasilia, Brazil

- Projects: Globant (Development Project), FactSet USA (Deep Sector - Data) and Deloitte USA (Decarb Solution)
- ✓ Developed notebooks for data analysis and automated database updates using Python, improving data availability for AI model training.
- ✓ Enhanced backend code to support scalability and performance, aligning with evolving project requirements.
- ✓ Conducted comprehensive code reviews, ensuring code quality and adherence to best practices.
- ✓ Designed automated tests using Unit Tests, enhancing reliability and consistency in backend processes.
- ✓ Created automated data pipelines for efficient data extraction and processing from Excel and CSV files, streamlining data ingestion for machine learning models.
- ✓ Authored documentation for streamlined team onboarding and continuous learning.
- ✓ Mentored team members, fostering a collaborative environment focused on knowledge sharing and best practices.

### Software Developer Full Stack

Radix Engineering and Software

2021 – 2022

Brasilia, Brazil

- Project: Americanas (Inventory control)
- ✓ Developed a backend application from scratch using Flask to enable workers to efficiently manage inventory.
- ✓ Enhanced frontend interaction with jQuery, improving the user interface for streamlined inventory control.

- ✓ Utilized PySpark in Databricks for large-scale data processing, creating and populating tables to support application and data insights.
- ✓ Implemented automated tests with Unit Tests to ensure backend code reliability and maintain high performance standards.

## AI BackEnd Software Developer

Portal Telemedicine

2020 – 2021

Brasilia, Brazil

- Projects: Telediagnosis (Heatmap screen, Fairness Analysis screen), State Sao Paulo Health Agency (Judicialization)
- ✓ Developed backend functionality using Python and Django, deploying scalable microservices to support AI-driven solutions.
- ✓ Optimized frontend code with JavaScript and Vue, enhancing user interface responsiveness for data-driven insights.
- ✓ Conducted rigorous code reviews to maintain backend quality and ensure scalable, best-practice implementations.
- ✓ Implemented automated tests with PyTest, improving software reliability and test coverage for backend processes.
- ✓ Streamlined data pipelines for transferring data to Cloud, optimizing backend data flow for machine learning applications.
- ✓ Containerized applications using Docker to enable consistent deployment across environments, supporting faster integration.
- ✓ Collaborated in GCP deployment enhancing scalability for production systems.
- ✓ Built BigQuery views to support efficient data updating for Looker dashboards, aligning with real-time analytical needs.
- ✓ Designed and implemented dashboards for judicialization metric analysis, providing insights through data visualization.

## Development Analyst

Softplan

2013 – 2020

Brasilia, Brazil

- Project: Attorney's Office of Sao Paulo State (Workflow Automation, Lawsuits Monitoring)
- ✓ Developed a custom application from scratch using Python and Django to automate employee tasks and increasing efficiency.
- ✓ Deployed applications on Heroku, ensuring reliable access and scalability for end users.
- ✓ Leveraged PostgreSQL for robust data storage and management, supporting application functionality and data integrity.
- ✓ Designed and implemented interactive dashboards for lawsuit analysis, extracting data from Excel and generating insights into trends and metrics.
- ✓ Incorporated user feedback and evolving requirements to iteratively improve application features.
- ✓ Conducted comprehensive software testing to ensure high functionality, performance, and reliability.

## SKILLS & KNOWLEDGE

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- ✓ **Programming Languages:** Python, JavaScript, SQL
  - ✓ **Testing:** Unit Tests, PyTest
  - ✓ **Frameworks & Libraries:** Flask, Django, Django Rest Framework, Scikit-Learn, TensorFlow, PyTorch, Pandas, NumPy
  - ✓ **Machine Learning:** Random Forest, SVM, Neural Networks, NLP, CNN, LLMs (BERT, GPT)
  - ✓ **Backend Development:** API Development (Flask, Django Rest, FastAPI), Microservices, Docker, Kubernetes
  - ✓ **Cloud & DevOps:** Google Cloud Platform (GCP), BigQuery, Data Fusion, Cloud Storage, CI/CD
  - ✓ **Databases:** PostgreSQL, MySQL, MongoDB, Firebase
  - ✓ **Data Processing & Visualization:** Matplotlib, Plotly, ETL, Data Pipelines
  - ✓ **Tools & Versioning:** Git, GitFlow, Jupyter Notebooks, Anaconda

### Personal Skills:

- ✓ **Curiosity and Adaptability:** Continuously learning new technologies and adapting to evolving project needs.
- ✓ **Collaborative Problem-Solver:** Strong team player with the ability to work across functions, solving complex challenges creatively and analytically.
- ✓ **Leadership with Attention to Detail:** Experienced in guiding teams, ensuring both high-level vision and meticulous execution.

**Languages Skills:** Intermediate in progress: French

Advanced: English

Native: Portuguese

**Certifications:** ITIL v3 – Foundation July/2015 – EXIN – The global independent certification institute