

# Nilton Santos

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## TECHNICAL SKILLS

**Fluent Languages:** English, Brazilian-Portuguese

**Programming Languages:** Python, JavaScript/TypeScript, C++, SQL | **Databases:** PostgreSQL, SQLite | **APIs:** RESTful, WebSocket

**Frameworks:** Flask, Django, FastAPI, Node.js/Express | **Cloud:** AWS (RDS, Lambda), Firebase, Google Cloud

**Tools:** Git Flow, Docker, CI/CD (GitHub Actions), Chat GPT API

## PROFESSIONAL EXPERIENCE

### Software Development Intern

Secretariat of Environment - SEMA/MT

Jun 2021 – Jun 2023

Cuiabá, MT

- Implemented offline/online synchronization with **SQLite** and **REST APIs**, integrating cloud.
- Integrated 3 government systems via **SOAP/REST APIs**, unifying licensing data.
- Automated data processing workflows with **Python**, using **Pandas** and **Numpy** for large volume analysis.
- Implemented geospatial visualization solutions with **PowerBI**, connecting to spatial data sources.
- Created interactive dashboards in **PowerBI** with integration to SQL databases and Excel spreadsheets.
- Automated reports in **Excel** and **Google Sheets** using **VBA**, **Python** and **App Scripts**, reducing generation and maintenance time by 20%.
- Developed data pipelines between **Excel**, **App Sheet**, **PowerBI** and SQL databases using **Python**.
- Implemented geospatial data processing with **Python**, generating visualizations in **Matplotlib** and **Plotly**.

### Solutions Engineer

State Attorney General's Office - PGE/MT

Jan 2024 – March 2025

Cuiabá, MT

- Modernized PGE-MT processes with **TypeScript** solutions, replacing a R\$1 million/year tool with a robust in-house system.
- Integrated repetitive processes into **ChatGPT** with custom automations, eliminating the need for an entire department at PGE-MT.
- Developed legal automation system with **Node.js/TypeScript**, integrating 5 workflows and reducing processing by 40%.
- Created automatic summarization module with **NLP**, eliminating 25h/month of manual review.
- Implemented legal chatbot with **Dialogflow** and **REST API**, handling 300+ daily requests.
- Developed document analysis system with **GPT-4** and embedding validation, reducing triage by 65%.

## PERSONAL PROJECTS

### RADARE - Reconciliation and Data Analysis in a Responsive Environment

**Duration:** 12 months

Data Reconciliation Project

- Developed scalable applications with **Python**, **Django**, **FastAPI**, **TypeScript** and **React**, creating **RESTful** APIs and responsive interfaces focused on UX and performance.
- Implemented industrial data reconciliation system, ensuring integrity and accuracy, with APIs and interactive interfaces for system integration.
- Optimized data processes, generating monthly savings of **R\$10,000** and increasing operational reliability and efficiency.

### AIICP - Artificial Intelligence Image Correction and Augmentation Pipeline

**Duration:** 6 months

Pixel-art image correction project for AI-generated images

- Developed automated pipeline for pixel-art correction with **Python**, **OpenCV**, **Pillow**, **Stable Diffusion** and **GANs**, adjusting resolution, colors and sharpness.
- Implemented automation with **Docker** and CI/CD via **GitHub Actions**, ensuring continuous delivery and scalability.

## EDUCATION

Federal University of Mato Grosso

Bachelor's Degree in Computer Engineering

Cuiabá, Mato Grosso, Brazil

2025