

ANA PAULA MENDES

Senior Software Engineer

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ABOUT ME

Senior Software Engineer with a degree in Computer Science and an MBA in Full Cycle Architecture. Solid experience in developing Big Data, Data Pipelines, and API solutions using Python, Ruby, Go, Scala and JavaScript. Expertise at the intersection of software engineering and data engineering, with a background in agile consultancy and scalable product development. A dedicated community leader, co-founded PyLadies Teresina and serves as Big Kahuna of Python Nordeste 2025, actively contributing to Python Brasil and mentoring professionals in technology.

WORK EXPERIENCE

Senior Software Engineer | Data-Driven

Remote

TOTVS - RD Station

📅 September, 2025 - Ongoing

📍 Florianópolis, Brazil

- Working with data-driven architecture evolution for the company's unified Engineering Platform, focusing on unifying core components to establish technical consistency and a seamless integration layer. This foundational work accelerates the development of intelligent, cohesive products and ensures a consistent end-customer experience across the ecosystem.

Technologies used: Ruby, Rails, JavaScript, BigData, BigQuery, Docker, Kubernetes, GCP, PostgreSQL, MongoDB.

Senior Software Engineer | Data-Driven

Remote

Jusbrasil

📅 January, 2023 - September, 2025

📍 São Paulo, Brazil

- Background Check and Entity Resolution: I have experience working with both business-to-business

EDUCATION

MBA in Full Cycle Architecture

Full Cycle

📅 2025 - Ongoing

📍 Remote

Master's degree in Intelligent Computing

Universidade Federal do Piauí - UFPI

📅 2023 - 2024 (Incomplete)

📍 Teresina, Piauí, Brazil

Bachelor of Computer Science

Universidade Federal do Piauí - UFPI

📅 2016 - 2022

📍 Teresina, Piauí, Brazil

Software Development Technician

Instituto Federal de Ciência e Tecnologia do Piauí - IFPI

📅 2012 - 2016

📍 Teresina, Piauí, Brazil

Industrial Administrative Assistant Technician

Serviço Nacional de Aprendizagem Industrial - SENAI

📅 2012 - 2014

📍 Teresina, Piauí, Brazil

LANGUAGES

English: High Intermediate: VPA 880-1280 by Voxy

(B2B) and business-to-consumer (B2C) models, focusing on analyzing, enriching, and processing legal case data. My work has involved identifying parties in legal proceedings, enhancing data fields, and improving data accuracy and completeness to support better decision-making. Currently, I contribute to the development and maintenance of a large-scale data pipeline at Jusbrasil, designed to structure and process legal cases efficiently. My primary focus is on entity resolution, ensuring that extracted information is accurate, consistent, and reliable. Within my team, I am responsible for the segment of the pipeline that handles entity resolution, processing, and data enrichment to enhance the identification of parties involved in legal cases. To achieve this, I work with Apache Airflow for orchestration, PySpark for distributed data processing, BigQuery for analytics, and Google Cloud Platform (GCP) for cloud infrastructure. Additionally, across the broader pipeline, I utilize Python, Scala, and Go for component development, Kafka for event-driven processing and messaging, and GCP for large-scale storage and computation.

- LegalOps: Building and maintaining a business-to-business LegalOps tool to help companies and lawyers transform massive amounts of data into better legal decisions.

Technologies used: Python, Go, Scala, FastAPI, PySpark, Airflow, BigData, BigQuery, BigTable, Kafka, Pytest, Docker, Kubernetes, GCP, Elasticsearch, Grafana, PostgreSQL, SQLAlchemy, Camunda, OpenSearch, Keycloak.

Developer Consultant

Remote

Thoughtworks

■ April, 2021 - January, 2023

📍 Recife, Pernambuco, Brazil

Thoughtworks is a leading global technology consultancy that integrates strategy, design and software engineering to enable enterprises and technology disruptors across the globe to thrive as modern digital businesses.

Working with Agile Methodologies, Lean Inception, Communication, Effective Feedback, High Performance Teams, Pairing; different software architectures like Monolith, Microservices, Backend for Frontend (BFF), Event Driven Architecture, Function as a Service (FaaS) and Architecture Evolution; support to Legacy Projects; Clean Code, CI and CD, Monitoring, Observability, Metrics, Documentation, Unit tests, Integration tests, Continuous Improvement.

Business: Streaming with Metadata Processing and Video Processing

Technologies used: Ruby, Ruby on Rails, Sinatra, Python, Flask, JavaScript, Redis, MongoDB, GitLab, Tsuru, Sentry, Grafrana, NewRelic, GCP, React, React Hooks, HTML, CSS, Docker, Kubernetes.

Backend Developer

Remote

Portuguese: Native

SCIENTIFIC RESEARCH EXPERIENCE

Undergraduate Student Researcher

Awarded Research at Seminários Integrados da UFPI 2020 ★
1st place - Biotecnologia, Recursos Naturais e Tecnologia da Saúde ★

CNPq - Conselho Nacional de Desenvolvimento Científico e Tecnológico

■ August, 2019 - August, 2020
📍 Teresina, Piauí, Brazil

Project: Machine Learning Algorithm Tests for Nephropathology Diagnostic Inference

Application of data analysis and data mining for the discovery of patterns for the inference of diagnoses in nephropathology and the use of machine learning to build a web and mobile automated diagnostic tool for medical assistance.

Technologies used: Jupyter, J48, Python, Machine Learning, Data Mining, Data Analysis, Java, Weka and CSV.

Undergraduate Student Researcher

CNPq - Conselho Nacional de Desenvolvimento Científico e Tecnológico

■ August, 2017 - August, 2018
📍 Teresina, Piauí, Brazil

Project: Application of Fuzzy Logic for Automatic Identification of Immunogenic Epitopes in Epitopic Reactivity Analysis

Studied data analysis and data mining for the field of organ transplantation and developed an algorithm with J48 decision tree for the automatic identification of reactive epitopes with great accuracy in an organ transplant.

Technologies used: Java, Weka and CSV.

VOLUNTEERING

Big Kahuna

<https://2025.pythonnordeste.org/>

Python Nordeste 2025

■ 2025
📍 Brazil

Python Nordeste is a technology event held annually since 2013, organized by enthusiasts of the Python programming language from the Northeast region of Brazil.

As a non-profit event, it is planned and conducted collaboratively by the community, aiming to promote learning, knowledge sharing, and strengthening connections among participants.

Maintainer / Tech Lead

Muvext

November, 2020 - April, 2021

Aveiro, Portugal

Engaged with API projects. Participating in issues discussions, refactor, improving features and working in the implementation of new ones, fixing bugs, writing tests and automating tasks.

Technologies used: Django, Django Rest Framework, Python, Docker, PostgreSQL, MongoDB, Linux, Celery and Git.

Full Stack Developer

Remote

Quiploy

October, 2018 - October, 2020

Rio de Janeiro, Brazil

Development of software for clinics (SaaS). Engaged with many company projects (backend, frontend, scripts, crawler). Participated in issues discussions, improved features and worked in the implementation of new ones, fixed bugs, written tests and automated tasks.

Technologies used: Django, Django Rest Framework, Python, JavaScript, Bootstrap, Zurb Foundation, Docker, Caddy, PostgreSQL, Vim, Linux, Screen, Axios, Celery, HTML, CSS, Git.

Freelancer - Web Scraping

Upwork

February, 2018 - April, 2018

Wrote scripts with Selenium for automating processes like authentication, scraping content from a specific site, browsing between pages, and downloading files.

Technologies used: Python, Selenium, HTML, CSS, JavaScript.

Open Source project

Colaboradados

February, 2019 - September, 2020

Brazil

It is a collaborative initiative that seeks to gather, demonstrate, investigate and monitor access to information and open data in Brazil. Developing new features and fixing bugs. Responsible for refactoring and reviewing code. Managing the development team. Pointing and discussing the appropriate technologies for the project. Responsible for the project infrastructure.

Technologies used: Python, Twitter API, Jekyll, Git, Ruby, Github, Docker, HTML, CSS, JavaScript, Django, REST.

Co-founder / Organizer

PyLadies Teresina

June, 2016 - July, 2018

Teresina, Piauí, Brazil

- ★ Organized the 1st Teresina Women's Programming Marathon;
- ★ Organized the 1st Django Girls Teresina, 2017;
- ★ Organized technical workshops on Introduction to Programming with Python;
- ★ Mentor of Django Girls Belo Horizonte 2017;
- ★ Mentor of Django Girls Teresina 2018;
- ★ Mentor of Django Girls Teresina 2019;
- ★ Keynote of Python Nordeste 2020/2021.
- ★ Mentor of Django Girls Teresina 2022;
- ★ Keynote / Mentor of Django Girls Parnaíba 2022.

Organizer / Member

Teresina Hacker Clube

June, 2016 - June, 2020

Teresina, Piauí, Brazil

- ★ Organized meetings, events, workshops.

Organizer / Member

Python User Group - Piauí

July, 2016 - June, 2020

Teresina, Piauí, Brazil

- ★ Organized meetings, events, workshops.