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Summary

I build software, data platforms and AI systems. Owner at Oráculo Inteltec; Software Engineer at Trustle. Background across data engineering, distributed systems and production AI (RAG, agents, observability).

Professional Experience

Trustle - Software Engineer

Remote - California, United States - Jul 2025 to present

Pipefy - Staff Software Engineer

Remote, Brazil - Dec 2024 to Jan 2026

Pipefy's AI Platform runs LLM-based agents (Assistant, Agent, Builder, Analytics) for enterprise customers, including major banks, telcos and global retailers, in single-tenant deployments.

- Joined through the Automations team, working on the core product (Ruby on Rails) and Pipefy's self-hosted iPaaS based on Activepieces (Node.js/TypeScript), before moving to the AI Platform.
- Core contributor to the platform's RAG (Retrieval-Augmented Generation) service: data-source ingestion, embedding and retrieval on pgvector/PostgreSQL, removing the platform's dependency on Pinecone.
- Worked on the production migration from Pinecone to pgvector with a dual-write, dual-read, cutover strategy gated by feature flags, with rollback per tenant and per agent.

- Implemented similarity search and contextual compression retrieval endpoints, backed by asynchronous processing on Celery and Redis Sentinel.
- Deployed the service on AWS, Azure and OCI with Kubernetes/Helm and GitLab CI, including E2E stages running against staging and production.

Technologies: Python, FastAPI, Celery, Redis Sentinel, PostgreSQL, pgvector, LangChain, LangGraph, OpenAI, Vertex AI, AWS Bedrock, Kafka, Docker, Kubernetes, Helm, GitLab CI, Ruby, Node.js

Stone - Staff Data Engineer

Rio de Janeiro, Brazil - May 2021 to Mar 2024

Risk Management Platform: data engineering behind fraud prevention.

- Developed extraction, loading, transformation and cataloging of data within the warehouse, feeding machine learning models for fraud prevention, dashboards and analysis.
- Built continuous data quality assertion routines for integrity and reliability.
- Engineered data models supporting ML training, monitoring, business intelligence and risk operations.
- Designed and spearheaded Amora, an open source data build tool: data schemas as Python type annotations (PEP 484) and transformations in SQLAlchemy, compiled to warehouse jobs.

Technologies: Python, SQL, Airflow, BigQuery, dbt, GCP, Feast, Dash, Plotly

OLX Brasil - Staff Software Engineer

Rio de Janeiro, Brazil - Jul 2019 to Jan 2021

Messaging

- Hands-on technical leadership of OLX's chat platform: hundreds of thousands of users connected at all times, 10M+ messages per day, on Elixir/Erlang with Python subsystems.
- Quality and observability work leading to 99.9% uptime and fewer support tickets; messaging flow optimizations cut operation cost while traffic grew 70% year over year.
- Designed image sending in chat with gradual geographic rollout: Elixir/Phoenix media service, CloudFront CDN, automatic content pre-moderation.

Location and Accounts

- Migrated a legacy C localization service used by ad insertion and search indexing to Python AsyncIO, Java Vert.x and Elasticsearch, cutting cost and stabilizing releases.
- Investigated and fixed an iOS memory leak causing out-of-memory crashes since 2013.

Technologies: Elixir, Erlang, Python, React, React Native, RabbitMQ, Elasticsearch, Redis, AWS

americanas advertising / B2W - Tech Leader

Rio de Janeiro, Brazil - May 2018 to Jun 2019

- Led development of ad-delivery APIs serving americanas.com, submarino.com and shoptime.com, with RabbitMQ messaging and Elasticsearch search and recommendation.
- Built data-driven B2B products for marketplace sellers: assortment recommendation from product visualization data and price competitiveness analysis.
- Authored aiologger, an asynchronous, non-blocking logger for Python and asyncio, and contributed to async-worker, an asyncio microframework for AMQP and HTTP consumers, both open source and widely used in production.
- Monitoring and observability of the production environment; hiring and selection of developers.

Technologies: Python, Node.js, RabbitMQ, Elasticsearch, Docker, Grafana

Sieve - Mid → Senior Backend Developer → Tech Lead

Rio de Janeiro, Brazil - Nov 2016 to May 2018

Price intelligence for Brazilian e-commerce.

- Designed the service keeping millions of marketplace product records up to date: concurrent Python AsyncIO processing hundreds of thousands of messages per minute over RabbitMQ.
- Built the Price Simulator: buybox analysis with win probability, aioHTTP backend serving concurrent users with no cache layer.
- Designed the pipeline integrating tens of thousands of products per minute into B2W's stores.

- Trained the team in asynchronous programming; modeled MongoDB read-optimized structures.

Technologies: Python, AsyncIO, aioHTTP, RabbitMQ, MongoDB, Django, React, Docker

UNIRIO - Developer

Rio de Janeiro, Brazil - Apr 2013 to Nov 2016

- Designed and deployed the university web portal: Plone CMS, Varnish caching, Pound load balancing.
- Full-stack process automation web apps in Python (web2py, Flask, SQLAlchemy), including a RESTful API used as an open data provider.
- iOS apps for internal events with QR code reading and LDAP auth; a MeteorJS realtime workflow-mapping editor; network administration and monitoring tooling.

Technologies: Python, web2py, Flask, SQLAlchemy, Plone, MeteorJS, MongoDB, iOS

Brazilian Air Force - Telecommunications Intern

Brazil - 2006

- Repairs and preventive maintenance of radars and radio communication devices on the Air Force's transport aircraft.

Education

UNIRIO - Bachelor's in Information Systems

Rio de Janeiro, Brazil - 2007 to 2016

Languages

- **English** - Fluent
- **Spanish** - Intermediate
- **Portuguese** - Native