

JOÃO NETTO

ROLE	Senior Fullstack Engineer, AI/LLM Systems Python, TypeScript, Elixir	EMAIL	jbm.dev@gmail.com
BASED IN	João Pessoa, Brazil (Remote (UTC-3), overlapping US/EU)	PHONE	+55 11 997181359
LANGUAGES	Portuguese native, English C1	WEBSITE	jbm.dev
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Fullstack engineer, 10+ years, now building the systems behind generative AI products. Founding engineer on the Topps NFT platform, owning payments and compliance for a business that peaked at \$2M/month across ~100K collectors. Built LLM observability at ProveAI. Works from an understanding of how systems behave underneath, choosing tools that fit the problem rather than the familiar default. Full-cycle in Python, TypeScript, and Elixir, from architecture to deployment.

01 PROFESSIONAL EXPERIENCE

2019–PRESENT

FCAMARA

Apr 2026 – present

SENIOR FULLSTACK DEVELOPER · SÃO PAULO, BRASIL · CLIENT: LOJAS RENNER S.A.

Placed with Lojas Renner, on the in-store self-service platform. Second time at the company; the first was 2019.

- React on Electron for the in-store terminals, Node.js/NestJS for the BFF — own both ends.

STACK: REACT / ELECTRON / NODE.JS / NESTJS

PROVEAI

Oct 2025 – Apr 2026

SENIOR SOFTWARE ENGINEER · SAN DIEGO, CA (REMOTE)

LLM observability platform for enterprise deployments, monitoring model quality. One of 11 engineers globally.

- Built the Python SDK customers integrate to instrument their LLM applications and stream evaluation data into the platform.
- Ran OpenTelemetry and Prometheus across 10+ customer deployments, surfacing TTFT, hallucination rate, and toxicity rate.
- Ran LLM-as-judge experiments for automated response quality evaluation.
- Rebuilt customer onboarding: static config became dynamic profiles, integration got 60% faster and unlocked hybrid infrastructure.
- Established CI/CD quality gates blocking any merge without a full test suite and lint pass; raised coverage from 30% to 75%, across React/Vite and Node.js/Express.

STACK: PYTHON / REACT / TYPESCRIPT / NODE.JS / EXPRESS / OPENTELEMETRY / PROMETHEUS / VICTORIAMETRICS / ENVOY / DOCKER

POPSTAND / SORTIUM

May 2021 – Oct 2025

SENIOR SOFTWARE ENGINEER · MIAMI, FL · CLIENT: TOPPS NFTS (FANATICS)

Built the Topps NFT platform at Popstand; team and client moved to Sortium when it was founded. 4+ years, from prototype to scale.

► TOPPS NFT PLATFORM

- Founding engineer on a team of 3 fullstack and 5 frontend: frontend, Firebase/Cloud Functions BFF, Node.js backend, and infrastructure for ~100K collectors, with drops driving ~10K concurrent users.
- 5 payment gateway integrations (Checkout.com, Plaid, Wyre, Sardine, Fortress), fiat and crypto, up to \$2M/month at peak, split evenly between drops and marketplace.
- Led the migration from Checkout.com/Wyre to Fortress Trust/Sardine with zero downtime, live payments and KYC; earlier, card fingerprinting and layered KYC cut fraud by 95%+.
- Owned Google Cloud for 5 years: realtime Firestore, security rules, Cloud Functions as the BFF, Cloud Run, and Terraform.
- Reference point for the platform's business rules: worked directly with product, drove integration and architecture plans, and mentored 3 engineers on code quality.
- Migrated 100,000+ NFTs to OpenSea with an embeddable asset viewer built into the marketplace.

► AI GATEWAY (GENAI IMAGE GENERATION)

- Co-built a multi-tenant API gateway in Python/FastAPI for image generation, 3 customer tiers, dedicated Celery queue per workload.
- Built the credit economy behind it: per-tier deduction, retries on worker failure, no charge for failed generations, per-tenant usage feeding billing.
- Delivered results via webhooks, with isolated Python workers handling post-processing.
- Led the quality refactor of a V1 shipped under launch pressure, restructuring it to FastAPI best practices with proper error handling and documentation.

STACK: PYTHON / FASTAPI / CELERY / NEXT.JS / REACT / TYPESCRIPT / NODE.JS / FIREBASE/FIRESTORE / CLOUD RUN / TERRAFORM / AWS / PRISMA

MAITHA TECH

Sep 2019 – May 2021

SENIOR SOFTWARE ENGINEER · SÃO PAULO, BRASIL · CLIENT: TRADEMASTER, COBASI

- React/Node.js ETL tool mapping Excel documents (~1M records/file) into credit analysis and fraud detection APIs, eliminating 40+ hours/month of manual processing.
- Live sales dashboard (React + GraphQL + Apollo) across 8+ TVs; a Redis cache layer unified reads over 7 databases and ended the recurring table-level deadlocks.

STACK: REACT / NODE.JS / GRAPHQL / APOLLO / REDIS / RABBITMQ / POSTGRESQL

02 STRENGTHS

CODE QUALITY

Readability and consistent patterns are non-negotiable, including for code an agent wrote; it gets reviewed either way.

TECHNICAL LEADERSHIP

Architecture and patterns set up front, then built alongside the team rather than reviewed from a distance.

LEGACY RESCUE

Code written under pressure turned into something a team can maintain, with the coverage and CI gates to keep it that way.

AUTOMATION

End-to-end suites in Playwright, performance checks in the pipeline, and the repetitive parts of a workflow handed to agents or scripts instead of people.

DISTRIBUTED DESIGN

Queues, async pipelines, event-driven integrations, and provider boundaries that keep third parties out of product code.

CROSS-AUDIENCE COMMUNICATION

Reference point for business-domain rules at Topps: stakeholder requirements in, executable plans out.

DOCUMENTATION

Architecture decisions written down as they are made, so the reasoning outlives the people who made it.

NEW TERRITORY

Comfortable being the first on the team to take an unfamiliar technology into production when the problem calls for it.

03 EARLIER EXPERIENCE

2014–2019

SENIOR BACKEND DEVELOPER · FCamara — All Invest X, FC Nuvem · São Paulo	Mar 2019 — Sep 2019
SENIOR BACKEND DEVELOPER · LinkApi Solutions — Riachuelo, Leroy Merlin, Chilli Beans, Midway · São Paulo	Jun 2018 — Mar 2019
MID-LEVEL BACKEND DEVELOPER · Escola SENAI de Informática · São Paulo	Oct 2017 — Apr 2018
MID-LEVEL FRONTEND DEVELOPER · Fleye · João Pessoa	Jul 2014 — Aug 2017

04 SIDE PROJECTS

LYBA

Pre-launch

AI TECHNICAL SPECIFICATION PLATFORM

Turns reference images into manufacturing-ready technical specifications for fashion professionals. I run it on my own.

- I built the core pipeline: a reference image goes in, a structured and editable specification comes out. It runs on Claude Sonnet 5, with Gemini (Nano Banana) for the image work.
- I put the AI layer behind a single provider boundary, so models and vendors swap without touching product code.
- A generation job survives a provider failure, and a retry never charges the user twice.
- I documented the architecture decisions and wrote the tests alongside the code.

STACK: ELIXIR / PHOENIX LIVEVIEW / OTP / JIDO / REQLLM / OBAN / POSTGRESQL / STRIPE / FLY.IO

CODE HORIZON

Side project

MULTI-TENANT AI CUSTOMER SERVICE AGENTS

RAG-based answering restricted to each business's own knowledge base. An anti-hallucination layer hands the conversation to a human when the model does not know.

- Defenses against prompt injection on input and PII leakage on output.
- One supervised OTP process per conversation, with tenant isolation enforced server-side.

STACK: ELIXIR / PHOENIX LIVEVIEW / OTP / JIDO / PGVECTOR / POSTGRESQL / OBAN

05 SKILLS

LANGUAGES	Python, TypeScript, JavaScript, Elixir, SQL
BACKEND	FastAPI, Node.js (Express, Fastify, NestJS), Elixir/Phoenix/OTP
FRONTEND	React, Next.js, Phoenix LiveView, Tailwind CSS
AI/LLM	Anthropic, OpenAI, Gemini, ReqLLM, Jido, RAG, LLM-as-judge, LLM observability
AI-ASSISTED DEVELOPMENT	Claude Code, Codex, MCP
CLOUD	GCP (Cloud Run, Cloud Functions, Firestore, Firebase Auth, Cloud Storage), AWS (EC2, ECS, Lambda, S3, SQS), Terraform, Docker, GitHub Actions
DATA & QUEUES	PostgreSQL, Redis, MongoDB, Firestore, GraphQL, Celery, Oban, Broadway, RabbitMQ, SQS, BullMQ
TESTING & OBSERVABILITY	Pytest, Jest, Vitest, Playwright, ExUnit, OpenTelemetry, Prometheus

06 EDUCATION

2022 – 2024	MBA, Software Architecture · FullCycle
2024 – EXPECTED 2026	BSc, Systems Analysis and Development · UNINASSAU