Fábio Berbert de Paula

Senior Software Engineer · Full Stack · Applied AI · Linux and AWS

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SUMMARY

Full stack developer with 26 years of experience in software development, Linux server administration and cloud infrastructure. My recent work centers on generative AI products: tool-using agents (function calling and MCP), WhatsApp assistants, CRM automation and data analysis. I own products end to end, from database modeling to deployment, with CI/CD, automated tests and observability. Founder of Viva o Linux, one of the largest Portuguese-language Linux communities, online since 2002.

TECHNICAL SKILLS

Languages	JavaScript, TypeScript, Python, PHP, SQL, Shell Script, GDScript
Back end	Node.js (Express, Fastify), FastAPI, PHP 8 (EspoCRM, Twig), Django, REST APIs, webhooks, workers and queues
Front end	React, Next.js, Tailwind CSS, Radix UI, Framer Motion, PWA, i18n
AI	OpenAI API (Responses, function calling), Google Gemini, LangChain/LangGraph, MCP (Model Context Protocol), TTS (ElevenLabs, Google Cloud), prompt engineering
Data	PostgreSQL, MySQL/MariaDB, SQL Server, Amazon Redshift, Redis, Meilisearch, MongoDB, data modeling
Infra and DevOps	Linux, AWS (EC2, S3, SES, Redshift), Google Cloud, Azure, Docker Compose, Nginx, systemd, PM2, GitHub Actions, GitLab CI, Grafana/Loki
Quality	Jest, Playwright, pytest, contract tests, Spec-Driven Development, AI-agent-assisted development

EXPERIENCE

AI Software Developer · **Wine** · contract · remote — Sep 2025 - Oct 2026

- Built Wine Communication Agent, an internal CRM platform that uses an LLM to generate personalized push and email messages from customer data and segmentation, for the Brazilian wine e-commerce company Wine.
- Created an MCP server with tools for read-only SQL on Amazon Redshift, CleverTap campaigns, profiles and events, and PostgreSQL persistence of customer classifications.
- Built the FastAPI back end (about 120 endpoints), async workers for the campaign queue and profile refresh, prompt governance, metrics and reports, plus the Next.js dashboard.
- Set up the Docker Compose stack with Grafana, Loki and Promtail observability; schema versioned in 63 SQL migrations.

Stack: Python, FastAPI, OpenAI, LangChain/LangGraph, MCP, Amazon Redshift, PostgreSQL, CleverTap, Next.js, TypeScript, Docker

Full Stack Developer · **Altarede** · contract · hybrid, Nova Friburgo, Brazil — Nov 2024 - Oct 2026

- Merged five separate systems, each with its own database, into a single CRM (Hub Altarede) built on EspoCRM, covering the sales and operations flow of a telecom provider.
- Developed 33 custom modules: sales, feasibility, pricing, contracts, deployment, inventory, tickets, finance, internal chat, passkey login and e-signature through ZapSign.
- Integrated the Hub with OZMap, PRTG, IXC, SystemSat and SQL Server; the equipment module connects to routers remotely and shows CPU, memory, traffic, ports and VLANs in real time.
- Set up continuous deployment with GitLab CI and led the production upgrade to EspoCRM 10.

Stack: PHP 8, EspoCRM, MariaDB, SQL Server, JavaScript, BPMN, GitLab CI, Linux

AWS Engineer · **Aivis Tecnologia** · contract · remote — Jun 2024 - Present

- Responsible for the architecture, configuration and maintenance of the Aivis system services and servers on Amazon AWS.

Stack: AWS, Linux, databases, Shell Script, PHP

Founder and Full Stack Developer · **Viva o Linux** · self-employed — Nov 2002 - Present

- Created and run the portal since 2002: development, servers, SEO and moderation.
- Leading the modernization of the legacy codebase to PHP 8.3, Twig and service/repository layers, with Meilisearch search, HTML sanitization against XSS, CSRF protection and an AI-assisted content pipeline.

Stack: PHP, MariaDB, Twig, Meilisearch, OpenAI, Docker, Nginx, Linux

Full Stack Engineer · **Automatizando.dev** · self-employed · Rio das Ostras, Brazil — Aug 2023 - Oct 2024

- Own platform for content, courses and AI and home automation products (see Projects).

Back-end Developer and DevOps · **ISM (Internet provider)** · Rio de Janeiro, Brazil — Jan 2001 - Dec 2004

- Web systems development and Linux server administration for the provider.

GNU/Linux Sysadmin · **Linux Solutions** · Rio de Janeiro, Brazil — Jun 2000 - May 2001

- Linux server administration and network services (web, email, DNS, firewall).

PROJECTS

AI assistant platform on WhatsApp · own product — 2025 - Present

> Monorepo with 7 applications (Express back end, WhatsApp and Telegram gateways, Monetal console and branded front ends). One tool-using assistant core serves several products through different profiles. About 3,000 commits in 10 months, nearly 1,000 back-end test files, deployment through immutable Docker images with GitHub Actions.
> **Stack:** Node.js, Express, MySQL, OpenAI, Gemini, ElevenLabs, Baileys, Stripe, AWS S3/SES, Next.js, React, Tailwind, Jest, Playwright

- **Tô na Quadra** · tonaquadra.com - SaaS for sports arenas to run rankings, tournaments, challenges (such as King and Queen of the Beach) and casual Plays in beach tennis, tennis, padel, pickleball, footvolley and volleyball. AI assistant on WhatsApp to check games and standings, agree on match times and record results; public arena pages, achievements, PWA and Stripe plans. Used by arenas in Nova Friburgo, Rio das Ostras and Búzios (RJ, Brazil).
- **Monetal Secretária IA** · monetal.com.br - virtual receptionist on WhatsApp for clinics: per-professional schedules, booking, rescheduling and cancellation in natural language by text or voice, appointment confirmations, feedback and return campaigns. Next.js console in PT, EN and ES, with human handoff, automations and Stripe plans.
- **Rabugento Assistant** · rabugento.app - personal assistant on WhatsApp for finances (including bill reading), reminders, shopping lists, tasks, a document vault and lookups, by text or voice, with a synced web dashboard.

Viva o Linux · vivaolinux.com.br — 2002 - Present

Portuguese-language Linux and open source community, online for 24 years, with user-written articles, tips, scripts, forum and news. My own contributions to the portal: 149 articles, 530 tips, 67 scripts, 1,990 forum posts and 1,675 comments.

Friends Fighters · Google Play — 2026

2D fighting game for Android that turns photos of friends into paper puppet fighters. Background removal runs on the device (MediaPipe), with voice recording, special moves, CPU opponents, three languages and a one-time purchase validated by its own back end. Published on Google Play (version 1.2.2).

Stack: Godot 4.5, GDScript, Java Android plugin, MediaPipe, TypeScript, Fastify, PostgreSQL, JWT, GitHub Actions

NBA Bet Agent · nbabetagent.com — 2025 - Present

Agent that pulls the daily NBA slate and combines standings, injuries, rest, travel and live odds to project outcomes. Uses Shin de-vigging, fractional Kelly staking, CLV tracking, automatic bet settlement and model accuracy tracking. Next.js dashboard in three languages.

Stack: Python, FastAPI, PostgreSQL, pandas, nba_api, The Odds API, OpenAI, Next.js, Docker

Automatizando.dev · automatizando.dev — 2022 - Present

Content and product platform for home automation and AI: articles, forum, paid courses, videos, function-calling assistants, WhatsApp chatbots, Mercado Pago and PayPal payments and remote gate control. Automated deployment with GitHub Actions.

Stack: Node.js, Express, MariaDB, Redis, React, Next.js, OpenAI, Twilio, ffmpeg, PM2

Talking Toy (Brinquedo Falante) · automatizando.dev/brinquedo

A plush toy that talks with children: a battery-powered Echo Dot inside the toy, driven by a custom Alexa skill connected to a Node.js back end with generative AI. Through a web dashboard, parents set the toy's name, personality, voice and the child's interests, and enable modules such as times tables, English, stories and guessing games.

Stack: Alexa Skills Kit, Node.js, OpenAI, TTS, React

EDUCATION

Bachelor's degree in Systems Analysis · **Estácio de Sá University** — 1996 - 2000

President of the course's junior enterprise and computer lab technician.

CERTIFICATIONS

- LPI - Linux Professional Institute
- HackerRank JavaScript Basic and Intermediate (2022)

LANGUAGES

- Portuguese: native
- English: full professional proficiency