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Felipe Matheus Ribeiro Lopes

Software Engineer · Brasília, DF, Brazil

Software Engineer who designs, builds and ships products with AI in the architecture and in the workflow. Co-founder and CTO of Macronutri, taken from a no-code prototype to production in three weeks. A UX research background keeps real users at the center of what I build.

EXPERIENCE

Co-founder & CTO · Macronutri — Oct 2026 – present · Remote

- Took a SaaS for Brazilian dietitians from a no-code prototype (Base44) to a product live in production in about three weeks.
- Owned every architectural decision: stack, data model, security and LGPD privacy model, infrastructure, CI/CD. AI coding agents implemented under my specs and review.
- Led UX, including interviews and usability tests with dietitians.

AI Resident & Researcher · AI Residency, LabLivre (UnB) × Instituto Eldorado — Sep 2026 – present · Gama, DF

- Selected for an 8-month, in-person residency in applied AI and data science, run as Challenge Based Learning.
- Led a 5-person team on Dossiê, a multi-agent system for suspicious news: defined the architecture, ran the sprints, integrated every agent.

Data Science & Analytics Intern · CNI (National Confederation of Industry) — 2026 · Brasília, DF

- Built about three AI agents; one cut the production cycle of PEG technical reports from 2–4 weeks to 1–2 weeks.
- Built and tuned a production Databricks Genie agent over Unity Catalog (instructions, example SQL, trusted assets, human-in-the-loop review).
- Led AI implementation guidelines and a reference manual; masked Spark SQL queries for LGPD compliance.

UX Designer & Research Assistant · ITRAC, UnB — Brasília, DF

- UX for projects with Brazil's Ministry of Management and Innovation in Public Services (MGI).
- Led a 3-person Systematic Literature Review on UX Design in Software Engineering (1,500+ papers screened).

PROJECTS

Macronutri · Co-founder & CTO — In production since 2026-11-01

React 19, Supabase (PostgreSQL 17, RLS on every table), Cloudflare Workers. 742 unit and 238 RLS tests, 9 CI jobs, threat model over 12 attack surfaces (68 findings, 0 critical). Live at app.macronutri.pro.

Dossiê · Team lead & architect — Completed

Ingestor → Evidence, Text Analysis and Socratic agents in parallel → Synthesizer. Returns an evidence dossier, never a verdict. I built the Ingestor.

RESEARCH & TEACHING

Research paper on operating and validating AI systems in production (in progress) · Speaker, "AI Beyond LLMs" workshop · Co-lead, "AI Workflows" workshop · Co-founder & instructor, Neural Networks study group (1 year)

SKILLS

Engineering	TypeScript, React, Vite, Tailwind CSS, Supabase / PostgreSQL (RLS, Edge Functions, pg_cron), Cloudflare Workers, software architecture
DevOps & security	GitHub Actions CI/CD, Docker, threat modeling, OWASP ZAP, gitleaks, osv-scanner, Vitest, Playwright
AI	Multi-agent systems, spec-driven development with AI coding agents (Claude Code, OpenCode, Antigravity, Gemini), prompt engineering, LLM guardrails and evals, Databricks Genie
Data	Python, SQL (Spark SQL, MySQL), MongoDB, Databricks, Unity Catalog, Power BI
UX & process	User interviews, usability testing, WCAG 2.2 AA, design systems, requirements elicitation, Scrum, LGPD data handling

EDUCATION & LANGUAGES

B.Sc. in Software Engineering, University of Brasília (UnB), expected Dec 2028 · Portuguese (native), English (fluent)