

MAYCON FERREIRA

AI, AUTOMATION & INTEGRATIONS ANALYST

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PROFESSIONAL SUMMARY

Automation, AI & Integrations Analyst working end to end across process automation, integrations, APIs and internal systems. I administer a self-hosted n8n environment with 10k+ production workflow executions and turn operational needs into solutions with Python, FastAPI, SQL/PostgreSQL and applied AI, from BPMN/AS-IS/TO-BE mapping and requirements through deployment, training and support.

CORE SKILLS

Automation & integrations: self-hosted n8n · low-code/no-code · Python · FastAPI · REST/JSON APIs · webhooks · OAuth 2.0 · SQL/PostgreSQL · Docker · Power Platform/Make/Zapier/CRM (contextual use)

Process & delivery: BPMN · AS-IS/TO-BE · requirements discovery · stakeholders · business rules · testing · UAT · documentation · deployment · training · continuous improvement

Applied AI & engineering: generative AI/LLMs · AI agents · RAG/grounding · human-in-the-loop · JavaScript/TypeScript · Git/GitHub Actions · CI/CD · logs/monitoring · troubleshooting · error handling · retries · idempotency · integration security · secret management

EXPERIENCE

GRUPO VESPER — Junior Process Automation Technician | Dec. 2025 – Present

Vesper Equipamentos EX / Vent Rio · automation, applied AI, integrations and internal systems

- **n8n & integrations:** administer a self-hosted Windows/Docker environment with 10k+ production workflow executions, integrating APIs, webhooks, PostgreSQL and SMTP with logs, retries, alerts, backups and auditability.
- **Commercial Proposals:** built and support an ODT/PDF + IMAP/SMTP workflow with human review; simple proposals went from 2–4 min to <30 sec and are used daily by 4 professionals.
- **Production & maintenance:** deployed Production Operations to 10+ PCs and 1 TV supporting 20+ professionals across 9 sectors; digitized maintenance for 40+ assets with checklists, evidence, history and Quality visibility.
- **HelpDesk & adoption:** internal system used by 11 people; gather requirements, map AS-IS/TO-BE/BPMN, test/UAT and deploy solutions with users, stakeholders and management; trained/guided 30+ people and follow support and continuous improvement.

COMPASS UOL — IT/Data Intern | Oct. 2024 – Mar. 2025

Data Engineering scholarship · 10 practical sprints

- Built a Python/SQL/Docker/AWS pipeline: CSV/TMDB API → S3 → Lambda/boto3 → Glue/PySpark → Raw/Trusted/Refined Parquet → Athena → QuickSight; practiced Linux, Git, ETL/Data Lake and data modeling.

SELECTED PROJECTS

- **Direct Mail:** 6 campaigns over a 1,020-contact base, one with 900+ recipients; 2 n8n workflows with per-recipient queues, deduplication, revalidated cancellation, retry and auditing.
- **CarreiraPessoal:** personal Windows product in active personal use (FastAPI + React/TS + Tauri/Rust) for job discovery, deduplication, career-goal checks, evidence and resume routing; v12.5.2 with 283 passing Python tests.
- **Operational Catalog:** FastAPI + SQLite FTS5, 24 categories and 480+ codes, unified search, revision control, price history and backups; used daily by 3 people.
- **Social Publishing:** n8n + Meta Graph API with applied AI, RAG/grounding, human-in-the-loop, reproducible offline evals, idempotency and per-channel failure isolation; Facebook/Instagram validated in testing.

EDUCATION

Systems Analysis and Development — UNISUAM · expected Dec. 2026

42 Rio Piscine · intensive Linux/C program · completed Jul. 2025

CREDENTIALS & ADDITIONAL TRAINING

Selected: Microsoft Applied Skills (3) — Microsoft Foundry Agents · MCP Tools with Agents · Power Apps Canvas Apps; UiPath Academy — Automation Business Analyst Professional Training; n8n Academy — N8N102/N8N103; Make Academy — AI Agent Builder; FIRJAN SENAI — AI Agents & Automations (40h).

LANGUAGES

Portuguese: native · English: independent technical reading; basic writing and conversation