

Antonio Leblanc

Co-Founder & CTO — 1.5°C
AI Wildfire Platform

Rio de Janeiro, Brazil · French & Brazilian citizen
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190 cameras 150 HaaS + 40 SaaS field cameras, 95% detection accuracy	40M+ hectares Monitored across Pantera's full platform — camera, multi-satellite, and geospatial data	8 AI agents In production on self-hosted, open- source Hermes — sales, CS, support, marketing	10 months Intern to CTO, 2020 — thrown into the role when the founding engineer left
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EXPERIENCE

Co-Founder & CTO — 1.5°C, umgrauemeio Sep 2020 – Present
Rio de Janeiro, Brazil

- Lead Pantera end to end, architecting the hybrid edge/cloud platform behind 190 field cameras — integrating camera, multi-satellite, and geospatial data across risk analysis, early detection, fire-spread modeling, CO₂ estimation, and deforestation monitoring, reaching **95% detection accuracy**.
- Built the engineering, ML, and environmental science team — **hired and developed every person on it**; still reviews code and architects alongside the team.
- Deployed **8 AI agents** in production on **Hermes**, self-hosted on our own servers — the engineering agent alone has autonomously merged 291 pull requests and closed 171 issues directly in production in its first three months; a separate ops agent cut AWS infrastructure costs 15%.
- Built and handed off **Customer Success, Technical Support, and Marketing** functions to dedicated owners as each outgrew founder-level involvement.
- Technical lead on the deal and deployment of **Suzano, the world's largest pulp producer** and our largest client, won in a competitive bid — plus strategic-partner and investor presentations driving commercial expansion into agriculture and conservation.

Software Engineer Apr – Aug 2020
Machine Learning Intern Nov 2019 – Mar 2020

Data Science Intern — Radix Engenharia e Software Jun 2019 – Oct 2019
Rio de Janeiro, Brazil

- Built machine learning models for predictive maintenance on industrial equipment — time-series, digital twin.
- Developed a genetic optimization algorithm that reduced energy consumption in production processes by 20%.

Operations Management Intern — Amazon Apr 2018 – Oct 2018
Orléans, France

- Designed and implemented supply chain optimization projects in a fulfillment center processing 400K units/day.
- Managed a team of 20 associates to streamline operations and enhance productivity.

OPEN SOURCE

ForeFire — open-source wildfire spread simulator in C++, developed at CNRS / Université de Corse 2022 – Present

- Contributor since 2022, maintainer since 2025 — reviewing and merging PRs, cutting releases, Dockerization, CI/CD, documentation.
- Co-author on the project's peer-reviewed **JOSS paper** (DOI 10.21105/joss.08680).

EDUCATION

General Engineering 2016 – 2018
École Centrale de Lyon, France

Mechanical Engineering 2014 – 2019
Polytechnic School of UFRJ, Brazil ·
CAPES scholarship for academic excellence

Baccalauréat Scientifique 2013
Lycée Molière, Rio de Janeiro, Brazil · Highest Honors

SKILLS & LANGUAGES

LANGUAGES Native: Portuguese, French · Fluent: English · Professional: Spanish

STACK Python, FastAPI, TypeScript/Angular, AWS, Docker, PostGIS, PyTorch

ML/AI Deep learning, geospatial ML in production, agentic systems

LEADERSHIP Agile/OKRs, cross-functional teams across engineering, ML, and environmental science

ALSO Marathon (3:24) · 10 years of formal piano; self-taught saxophone, guitar