

Luiz Augusto Fidalgo

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Dual Brazilian-Portuguese citizen, eligible to work in the EU

Education

University of Brasília

Bachelor of Electrical Engineering (Honors)

- Graduated with honors as the Outstanding Student of my class

Brasília, Brazil

Mar 2018 - Feb 2024

University of Rome Tor Vergata

Sandwich Program, ICT and Internet Engineering & Mechatronics Engineering

- Completed master's level courses in Artificial Intelligence, IoT and VLSI

Rome, Italy

Feb 2023 - Aug 2023

Experience

Machine Learning Engineer

ada Learning

Feb 2025 - Present

Düsseldorf, Germany (Remote)

- Developing end-to-end no-code platform for creating AI Agent workflows, handling infrastructure, backend (Python/FastAPI), and frontend (SvelteKit)
- Delivered AI Agent workshops to 70+ professionals representing 10+ different companies
- Building internal automation tools and managing cloud infrastructure with CI/CD pipelines

Machine Learning Engineer

Hotmart

Aug 2024 - Jan 2025

Belo Horizonte, Brazil (Remote)

- Developed high-throughput async API enabling Data Scientists to interact with LLMs, RAG, and AI Agents across the platform
- Built CI/CD automation tools using Docker, Kubernetes, and Terraform, significantly reducing deployment times
- Conducted load testing and optimization of APIs to ensure scalability and reduce cloud infrastructure costs
- Streamlined ML model deployment workflows using AWS SageMaker, EKS, Lambda, and SQS

Machine Learning Engineer

snowfoxAI

Sep 2023 - Aug 2024

Brasília, Brazil (Remote)

- Developed document extraction pipeline using OCR, LLMs, and RAG achieving human-comparable accuracy with significantly faster processing times (deployed on AWS)
- Built computer vision solution for high-cardinality object detection using YOLOv8 and SAM, handling model training and scalable deployment infrastructure (deployed on GCP)
- Architected MLOps infrastructure across AWS, GCP, and Azure using Kubernetes and Docker

IoT Development Intern

Grupo Orion

Mar 2021 - Dec 2022

Brasília, Brazil

- Developed 5 IoT sensor prototypes measuring environmental factors (sound, smell, weight, people counting)
- Produced, tested, and deployed 200+ sensor units from prototype to production
- Built software tools for remote sensor testing, monitoring, and configuration using Azure IoT Hub

Technologies & Skills

Languages: Python, C, C++, TypeScript | **AI/ML:** LangChain, LlamaIndex, CrewAI, PyTorch, scikit-learn, RAG

Cloud: AWS (SageMaker, EKS, Lambda, S3), GCP (Vertex AI, GKE), Azure

DevOps: Docker, Kubernetes, Terraform

Frameworks: FastAPI, Flask, Streamlit, SvelteKit | **Databases:** PostgreSQL, MongoDB, DynamoDB

Spoken Languages: English (C2), Portuguese (Native)