LUIZ AUGUSTO FIDALGO

📍 Frankfurt, Germany 🏴 Brazilian & Portuguese

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Languages: English (C2), Portuguese (Native)

EDUCATION

Bachelor of Electrical Engineering (Honors)	Mar 2018 – Feb 2024
University of Brasília	*Brasília, Brazil*

- Graduated with honors as the Outstanding Student of my class

Sandwich Program, ICT and Internet Engineering & Mechatronics Engineering	Feb 2023 – Aug 2023
University of Rome Tor Vergata	*Rome, Italy*

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

PROFESSIONAL EXPERIENCE

Machine Learning Engineer	Feb 2025 – Present
ada Learning	*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 40+ professionals representing 9+ different companies
- Building internal automation tools and managing cloud infrastructure with CI/CD pipelines

Machine Learning Engineer	Aug 2024 – Jan 2025
Hotmart	*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	Sep 2023 – Aug 2024
snowfoxAI	*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	Mar 2021 – Dec 2022
GrupoOrion	*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