

# Luiz Augusto Fidalgo

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## Education

### University of Brasilia

Bachelor of Electrical Engineering

- Graduated with honors as the Outstanding Student of my class.

Brasília, Brazil

Mar 2018 - Feb 2024

### University of Rome Tor Vergata

International Sandwich Program

- Attended master's level courses into Artificial Intelligence, IoT and VLSI.

Rome, Italy

Feb 2023 - Aug 2023

## Experience

### Hotmart

Amsterdam, Netherlands (Remote)

#### Machine Learning Engineer

Aug 2024 – Present

- Assisted Data Scientists in deploying machine learning models into production using SageMaker and EKS.
- Developed high-performance APIs for AI applications using LLMs, RAG, and AI agents, optimizing integration and scalability for developers and clients.
- Created automation tools to streamline CI/CD pipelines, utilizing Docker, Kubernetes, and Terraform, significantly improving deployment efficiency and reducing release times.
- Authored RFCs and documentation to standardize workflows and ensure effective project execution.

### SnowFox AI

Brasília, Brazil (Remote)

#### Machine Learning Engineer

Sep 2023 – Aug 2024

- Developed a pipeline to extract information from unstructured documents using OCR, LLMs, and RAG. Achieved human-comparable results with significantly faster processing times.
- Developed and deployed a computer vision solution for high-cardinality object detection and classification, including model training and scalable infrastructure setup using Kubernetes and Docker.
- Integrated state-of-the-art technologies like GPT-4o, SAM, YOLOv8, and other Foundation Models to enhance AI system performance in real-world applications.
- Architected and implemented cloud infrastructure for MLOps across GCP, AWS, and Azure environments;

### GrupoOrion

Brasília, Brazil

#### Hardware and Software Development Intern

Mar 2021 – Dec 2022

- Contributed to the development of 5 IoT sensor prototypes and supported the production, testing, and installation of over 200 units.
- Worked with microcontrollers and microprocessors to develop and optimize hardware solutions.
- Recognized as the company's Outstanding Intern of 2021.

## Technologies & Skills

**Programming Languages:** Python, C, C++

**AI & ML:** Pandas, Numpy, scikit-learn, TensorFlow, PyTorch, MLflow

**LLM, RAG & AI Agents Frameworks:** LangChain, LLamaIndex, CrewAi

**AWS:** S3, Lambda, ECR, EKS, SageMaker, Textract, DynamoDB, SQS

**GCP:** Cloud Storage, Cloud Functions, Cloud Run, Vertex AI, AutoML, GKE

**DevOps:** Docker, Terraform, Kubernetes, CI/CD, GitHub Actions

**Web Frameworks:** FastAPI, Flask, Streamlit

**Data Visualization:** Matplotlib, Plotly

**Soft Skills:** Leadership, Communication, Cross-functional Teamwork, Problem-Solving, Critical Thinking

**Languages:** English (C2), German (A2), Portuguese (Native)