

# LUIZ FERNANDO COSTA DOS SANTOS

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**Languages** Portuguese, English.

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## EXPERIENCE

### Machine Learning Engineer - Platform team - Nubank

09/2025 - Present

At Nubank, the world's largest digital bank outside Asia serving over 100 million customers, I spearheaded the development of a centralized Feature Store to standardize discovery and drastically reduce model time-to-market. I architected data immutability systems using Delta Lake to enforce strict quality standards and developed low-latency API endpoints that optimized the integration workflow for cross-country engineering teams.

### Machine Learning Engineer - Credit team - Nubank

09/2022 - 09/2025

I engineered a Python orchestration library for batch and real-time environments, reducing average deployment times by 60%. I led the migration of monitoring services to a Spark/Scala framework, slashing contribution lead times from five hours to under one, and deployed a flexible binning framework that compressed change cycles from months to weeks. Additionally, I mentored junior engineers on architectural tests that directly impacted over 500,000 clients.

### Machine Learning Engineer (Research Project) - Huawei & Embrapii

Feb 2022 – Sep 2022

Partnering with Huawei, a global leader in ICT and solar solutions, I built a feature serving system using Airflow and InfluxDB to process IoT sensor data with sub-500ms latency. I developed a 50,000-point solar characterization dataset and deployed Random Forest models that increased the plant's energy generation efficiency by up to 12%.

### Data Engineer (Research Project) - MGITECH

Aug 2021 – Aug 2022

At MGITECH, a firm specializing in corporate mobility, I developed analytical operations for mobile data collection. I built robust ETL pipelines connecting transactional SQL databases to business intelligence dashboards, significantly enhancing the company's visibility into operational data.

## EDUCATION

### Masters of Science in Computer Science Candidate - Georgia Tech

08/2026 - 08/2029

· Applying for the OMSCS in the next available semester.

### B.S in Data Science and Artificial Intelligence - Universidade Federal da Paraíba (BRAZIL)

08/2020 - 06/2025

· GPA: 9.43/10 (2nd of class)  
· TF for Data Science Introduction, with a +30 students class

## TOOLS AND INTERESTS

**Tools** Python, Scala, Java, C, C++, PyTorch, TensorFlow, MLFlow, Git, Linux, GCP, AWS, Kubernetes.

**Interests** Machine Learning Engineering, Large Language Models, Data Scientce, Software Engineering, MLOps.

## EXTRACURRICULAR ACTIVITIES

### Advisor - Momento

08/2025 - Present

Momento is an NGO that focuses on mapping alumni from public universities in Brazil and generating value through mentorship, events, and competitions. We already ran a pilot project with 50 students from 3 different universities and now we are currently preparing a second round accomplishing more universities.

### Advisor - Trilha

04/2024 - Present

Trilha is an educational program . Our goal is to give new students practical experiences and knowledge about computer science, programming, and the job market. The project started in 2024 and are growing in size and students, with more than 50 students having completed or enrolled so far.

## PAPERS

### Generation-to-Storage Data Framework for Large-Scale Carbon Sequestration Simulation Datasets

2025

## RELEVANT CERTIFICATES

### Machine Learning in Production - deeplearning.ai

09/2025

### Neural Networks and Deep Learning - deeplearning.ai

01/2021

### CS50 - Harvard

10/2025