

Marcos Ribeiro

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Summary

Software Engineer with 6 years of progressive experience and a track record of growth within a high-impact technology company. Proven ability to lead 0-to-1 product launches, including a comprehensive Farm Management System (FMS) delivered as an MVP in 6 months. Expert in React, Node.js, and Python, with specialized experience in geospatial data (Mapbox), workflow automation (N8N), and Product-Led Growth (PLG) strategies. Recognized for a rapid technical ramp-up and a focus on transforming complex manual processes into high-performance, self-service digital experiences.

Education

- BS** **Federal University of Minas Gerais (UFMG)**, Electrical Engineering 2018 – 2024
- Relevant Coursework: Algorithms and Data Structures, Software Engineering, Digital Systems, Microprocessors, and Control Systems.
- Spec** **UNICAMP**, Data Science 2025 – 2026
- Relevant Coursework: Machine Learning, Deep Learning, MLOps, Business Analytics, Python, R, NoSQL/NewSQL databases.

Experience

- Syngenta Digital**, Software Engineer (Mid-Level) Belo Horizonte, Brazil
Aug 2022 – Present
- Led the 0-to-1 development of a Greenfield Farm Management System (FMS), architecting a scalable frontend using React, Refine, and Ant Design.
 - Delivered a feature-complete MVP in 6 months, enabling real-world market validation for warehouse and financial management modules.
 - Engineered a self-service onboarding engine using N8N and Node.js, transitioning the platform to a Product-Led Growth (PLG) model.
 - Reduced user onboarding time from several days to under 20 minutes by automating data validation and provisioning.
 - Architected and deployed an AI-powered speech-to-text order generation system using AWS infrastructure (EC2, S3, MSK for messaging, CloudFormation for IaC), enabling customers to create orders through voice commands.
- Syngenta Digital**, Junior Software Engineer Belo Horizonte, Brazil
May 2021 – Aug 2022
- Developed complex geospatial visualizations using Mapbox, enabling real-time interactive tracking of farm assets on custom maps.
 - Optimized frontend performance by refactoring legacy React components, significantly reducing page load times for high-traffic modules.
 - Led UI refactoring initiatives using Ant Design to improve code maintainability and ensure design consistency across the product suite.
- Syngenta Digital**, Software Engineering Intern Belo Horizonte, Brazil
Aug 2020 – May 2021
- Achieved a rapid technical ramp-up, delivering full-stack features in Python and React/Redux within the first month of onboarding.
 - Demonstrated high adaptability by mastering the internal development ecosystem and supporting core engineering workflows.
- LCE – Evolutionary Computation Lab, UFMG**, Undergraduate Researcher Belo Horizonte, Brazil
Dec 2019 – Aug 2020
- Developed a system to optimize the structural configuration of electrical transmis-

sion towers using genetic algorithms, reducing design search space and improving convergence to optimal solutions.

- Built interactive geospatial visualizations to display the impact of environmental factors — including climate, elevation, and terrain — on tower configuration decisions.
- Developed a JavaScript web application to visualize optimization results, rendering interactive maps and charts to compare tower configurations across different geographic and climatic conditions.

LABBIO – Bioengineering Lab, UFMG, Undergraduate Researcher

Belo Horizonte, Brazil
Jul 2019 – Dec 2019

- Designed and implemented a patient gait analysis system using a pressure-sensitive mat with a mesh of actuators, capturing real-time footstep data to characterize walking patterns.
- Processed and visualized sensor data to generate gait reports, supporting clinical assessment of patients' locomotion and biomechanical analysis.
- Integrated hardware sensor input with software data pipelines, enabling automated collection and structured storage of patient movement information.

Technologies

Languages: Python, JavaScript (ES6+), TypeScript, Java, SQL, HTML/CSS.

Frameworks & Tools: React, Node.js, Refine, Ant Design, Mapbox, N8N, PostgreSQL, Docker, Git, AWS (EC2, S3, MSK, CloudFormation).

Languages

English: C1 (Advanced) **Portuguese:** Native Speaker **Spanish:** B1 (Intermediate)