

MATHEUS MOTA | Software Engineering

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WEBSITE: matheusmota.dev.br | **LANGUAGES:** Portuguese (Native), English (Intermediate), Japanese (Beginner)

EXPERIENCE

Software Engineer [Maria Educação] Feb 2025 - Present

I work on the assessment and content-authoring domains of the company's education platform. I led the development of large-scale assessment for paper-based exams - optical mark recognition of answer sheets, automatic grading of objective questions, PDF typesetting of exams in student and teacher variants, and performance metrics by student, class and school - serving around 3,000 students in 3 schools. I also integrated Item Response Theory (IRT) into the assessment flow, with item-parameter calibration, proficiency by curricular component and automatic report generation, on top of an analytics layer that serves public SAEB microdata. On the content side, I built an AI-assisted authoring tool that generates lessons, workbooks, books and learning paths with large language models, using agent orchestration, streaming progress feedback and on-demand image generation.

Software Engineer [DEEP ESG] Feb 2024 - Jan 2025

I worked on structural solutions for all of the company's products. Among the most relevant experiences, I highlight the unification of login across 3 different products, allowing around 1,000 users to access every service with a single account, through credentials, one-time passwords (OTP) and federation with Google and Microsoft. This initiative enabled the adoption of Single Sign-On (SSO) and significantly simplified access management processes, providing a more integrated and efficient experience for users.

Intern [ITA Space Center (CEI)] Feb 2023 - Mar 2023

During my internship, I worked on the planning and preliminary implementation of a Service-Oriented Architecture (SOA) focused on the integration of Ground Segment (GS) systems. This integration involved several components, such as antennas, simulators and IoT devices, ensuring greater interoperability and efficiency in the system's operation.

Freelancer [Freelance] Jan 2022 - Dec 2023

Responsible for optimizing and developing automations for data extraction in legal platforms, including overcoming captchas, FTP transfers and table modeling. With refactorings that improved clarity and performance, I implemented structures that allowed the execution of multiple scripts on different platforms, resulting in more efficient and flexible automation.

Co-Founder [Business Application] Mar 2021 - Sep 2021

Initially, I worked on developing a Marketplace application using Flutter, Dart, and Firebase technologies. At the same time, I was responsible for planning user interface and experience (UI/UX) elements using Figma. Later, I gave training on creating applications using the same technologies, aimed at beginning university students. This training included the development of a song lyrics search engine project and practical tutorials on the language.

Intern [Quero Education] Oct 2019 - Apr 2020

I developed software for the Academic Center (CASD) with the goal of automating and optimizing manual processes, such as room scheduling, laundry scheduling, and issuing and monthly control of bills for students. In this project, I worked as a Full-Stack developer, covering everything from modeling and creating the database to developing an application aimed at students and a management interface for administrators.

Full-stack Developer [ITA Junior] Sep 2018 - Oct 2019

I was responsible for several internal projects within the company, including the development of a customized ERP for a psychiatric hospital. Due to the scale of the project, the process flowcharts, the database and some interfaces were delivered for the team to continue. At the same time, I taught classes to new members, covering basic and advanced concepts of web development. During this period, I also participated in ENEJ 2019, where I had the opportunity to expand my network of contacts through networking with students from other universities.

EDUCATION

Master in Computer Science Aug 2023 - 2025

Aeronautics Technological Institute (ITA) (São José dos Campos, Brazil)

Bachelor of Aerospace Engineering Jan 2018 - Dec 2023

Aeronautics Technological Institute (ITA) (São José dos Campos, Brazil)

SKILLS AND TOOLS

Agile: SCRUM, Kanban	Languages: TypeScript / JavaScript (Node.js), Python, Java, Go
Front-end: React, React Native, Next.js, Nuxt (Vue 3)	Back-end: Django, NestJS, FastAPI, Spring Boot
Database: PostgreSQL, Microsoft SQL Server	Infra: Docker, GCP, AWS, Azure, TemporalIO