Filipi Maciel *ENG*

Software Developer

Backend | C# | .Net Core |

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🎓 Education

Federal Institute of Education, Science and Technology of Northern Minas Gerais - IFNMG   2019 – 2025

Bachelor's Degree in Computer Science   *Montes Claros - Minas Gerais, Brazil*

💼 Work Experience

Sicoob Credinosso   Nov 2022 – Feb 2024

Data Analyst – Business Intelligence in the Financial Sector   *Montes Claros, Minas Gerais, Brazil*

» VBA | Software Development | Excel | IBM Cognos Analytics | Power BI
> Responsible for optimizing routines and automating reports using VBA (Visual Basic). Data extraction, processing, and management using IBM Cognos Analytics.
> Performed maintenance on systems developed in VBA, including file management systems and goal tracking systems. Developed and maintained interactive dashboards in Power BI.
> Presentation of results using Microsoft Office tools such as Word and PowerPoint.

UaiCode (Junior Enterprise)   Sep 2016 – Jun 2017

Project Manager – Software Development   *Montes Claros, Minas Gerais, Brazil*

» SCRUM | Trello | Planning | Team Management
> Managed the entire software development project lifecycle, from planning to delivery. Acted as a liaison between stakeholders, developers, and QA teams to ensure strategic alignment.
> Oversaw timelines, costs, and risk management using Trello. Implemented Agile Scrum methodology and DevOps practices to automate development workflows.

🧪 Personal Projects

Investment API   Apr 2025 – Apr 2025

» JavaScript | HTML | CSS
> "From 0 to 100K" is an API built using JavaScript and HTML that simulates an investment calculator. It estimates how long it would take to reach one hundred thousand reais through monthly and annual investments. This project allowed me to create a simple yet functional application from scratch — covering the initial idea, version control, development, and deployment. It serves as a Proof of Concept (PoC) to evaluate the feasibility of a full-scale investment simulation platform.
> Available here.

🧪 University Projects

My Code: Programming for Children   Jan 2022 – Dec 2022

» Programming | Robotics | Teaching | Tutoring
> Worked as an instructor teaching programming and robotics to children using a custom robotics kit developed by the project team. The kit included programmable electronic components such as Arduino, sensors, and LEDs. Students programmed the kit through the DB4K platform. Activities and interactive exercises were created to provide a fun and hands-on learning experience.

My Maker: Programming and Robotics   Jan 2021 – Dec 2022

» Programming | Robotics | Mathematics |Teaching | Tutoring
> Served as an instructor for programming and robotics classes aimed at children and teenagers. Lessons included block-based programming using Code.org, robotics projects using Tinkercad for designing electronic circuits, and unplugged activities to teach basic programming and mathematical concepts.

Programming and Robotics for Children and Teenagers   Jul 2020 – Dec 2020

» Programming | Eletronics | Robotics | Teaching | Tutoring
> Worked as an instructor in programming and robotics classes using recycled materials. Created and recorded educational video lessons for children and teenagers to introduce them to programming and robotics in a creative and accessible way.

Program Children: Programming for Kids
Jun 2017 – Dec 2017

» Programming | Mathematics | Logic
> Taught programming classes focused on developing logical and computational thinking skills in children. The goal was to introduce them to computer science concepts, spark interest in technology, and enhance their performance in mathematics.

Animated LIBRAS Dictionary Applied to Math Teaching: Technology for Inclusion
May 2016 – Dec 2016

» LIBRAS | 3D Modeling | Animation | Mathematics
> Worked on 3D modeling and animation in Brazilian Sign Language (LIBRAS) using Blender software. Developed animated content for a dictionary focused on mathematical symbols, promoting accessibility and inclusion in education.

GeoGebra Initiative: Using GeoGebra in Calculus Teaching
Mar 2015 – Oct 2015

» Applets | Geogebra | Calculus | Mathematics
> Developed interactive applets using GeoGebra to support the teaching of differential and integral calculus for undergraduate students.

⚙ Volunteer Work

Project Director Enactus IFNMG - I was a member of the Enactus-IFNMG team where I worked on social projects aimed at promoting the teaching of programming to children. I had the opportunity to learn about project management, management tools, interpersonal relationships, the importance of social work and teamwork. May 2016 - Dec 2016

💬 Communication

English _professional_   **Portuguese** _Native_

🏆 Publications

ccessnet: Animated LIBRAS Dictionary
Jun 26, 2017

» Intercâmbio Unimontes Magazine

Chaotic Cryptography: Transformation of Arnold's Cat Applied to Computer Security
May 1, 2016

» SIC - Scientific Initiation Seminars