

Rafael de Moura **Moreira**



Contact Information

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Languages

Portuguese: native

English: fluent

Spanish: advanced

French: basic reading

Professional interests

Software development

Hardware prototyping

Data analysis

STEM education and popularization

The most recent version of this CV is available at:



Disponível em Português.
Disponible en Español.

Education

Master of Science in Computer Science and Technology

Federal University of Itajubá, 2019.

Bachelor of Science in Computer Engineering

Federal University of Itajubá, 2015.

Graduate Course in Data Science

University Center of United Metropolitan Colleges (in progress).

Graduate Course in Software Development with Agile Methodologies

Anhembi Morumbi University (in progress).

Experience

Programmer | Setis Automação e Sistemas (PayGo/C6 Bank) | oct/18 - present

Embedded software development and maintenance for several different models of POS terminals (credit card machines) for a major acquirer in Brazil using C language and Scrum. Development of automated package generation tools in Python.

Programming teacher | Let's Code Academy | jan/19 - present

Python Pro teacher: introduction to algorithms data structures, object oriented programming, GUI, APIs and web scraping. Wrote a full textbook for the course, plus a chapter on data visualization for the Data Science course textbook.

Temporary Lecturer | Federal University of Itajubá | feb/17 - oct/18

Lecturer on Introduction to Programming on three undergraduate courses: Computer Engineering, Electronics Engineering and Control and Automation Engineering. Lessons in C and Python. Mentoring of two extracurricular projects: Dev-U (a videogame programming group for undergraduate students) and Programação (undergraduate students teaching programming to high school students).

Public lectures and workshops

Most relevant lectures and workshops (all in Portuguese):

How to Make Your Own Gameboy

Campus Party Brasil, 2018

Embedded Systems Development

BSides São Paulo, 2016

Earliest Deadline First Scheduler

The Developer's Conference São Paulo, 2014

Secure Coding

BSides São Paulo, 2014

Published Articles

Moreira, Rafael, et al. "Online Heartbeat Classification Using Low Cost Algorithms." 2019 31st International Conference on Microelectronics (ICM). IEEE, 2019.

Moreira, Rafael M., et al. "Plataforma Didática de Baixo Custo para Experiências em Laboratórios de Controle (Low Cost Learning Tools for Control Engineering Experiments)". XX Brazilian Conference on Automation. SBA, 2014.

Programming languages and tools

Most used languages

C, Python

Data modeling and analysis tools

Anaconda (Python), MATLAB, Octave

Microcontrollers and development boards

Arduino, Raspberry Pi, HCS12, PIC18F

Agile frameworks

Scrum, XP

Software versioning

GitHub

Different degrees of experience in other languages. Quick to learn how to use new tools and languages.