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 Didatica de Baixo Custo para Experiências em Laboratorios de Controle (Low Cost Didatic Platform for Control Laboratory 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.**