

Ithallo Junior Alves Guimarães

1 Personal Information

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2 Introduction

Python and Go/Golang developer with an MSc of Biomedical Engineering and an Electronics Engineering background. Experienced with Python, Go/Golang, Docker, Kubernetes, Machine Learning, biomedical (and electronic) instrumentation, biomedical signal acquisition, digital signal processing, and others. Self-taught, committed, and a fast learner. I natively speak Portuguese, basic Spanish and basic French, and I'm fluent in English.

3 Formal Education:

2018 - 2021

Master's degree in Biomedical Engineering - University of Brasilia (UnB), Brasilia, Brazil.

2012 - 2017

Bachelor's degree in Electronics Engineering - University of Brasilia (UnB), Brasilia, Brazil.

2014 - 2015

Exchange Student (Electrical Engineering) - Budapest University of Technology and Economics (BME), Budapest, Hungary.

4 Work Experience:

September 2021 - present day

Senior Software Analyst - Eldorado Research Institute

Worked on different projects as:

- Tech lead and developer. Technologies: Python (PyQt, Flask e SQLAlchemy), Microsoft SQL Server, SQLite, Docker, and embedded linux.
- Developer. Technologies: Go/Golang (Operator-SDK), Docker, Kubernetes, Prometheus, Grafana, and TimescaleDB.

May 2021 - September 2021

Software Analyst - Eldorado Research Institute

Tech lead and developer. Technologies: Python (PyQt, Flask e SQLAlchemy), Microsoft SQL Server, SQLite, Docker, and embedded linux.

December 2020 - May 2021

Systems Analyst I - Coopersystem

Main Python back-end developer for the Portal Coopersystem project with the following technologies: Django, Django REST Framework, Celery, RabbitMQ, PostgreSQL, and Docker.

September 2019 - December 2020

Programmer II - Coopersystem.

Main Python back-end developer for the Portal Coopersystem project with the following technologies: Django, Django REST Framework, Celery, RabbitMQ, PostgreSQL, and Docker.

March 2018 - September 2019

Scholarship Holder - Coordenadoria de Aperfeiçoamento de Pessoal de Nível Superior (CAPES).

Scholarship holder of the Postgraduate Program in Biomedical Engineering of the Gama Faculty, University of Brasilia (PPGEB FGA-UnB).

Research field: Analysis and development of health and intelligent systems.

October 2018 - December 2018

Voluntary Teacher - Gama Faculty, University of Brasilia (FGA-UnB).

Teacher of the Laboratory of Digital Electronics 1 course.

March 2018 - July 2018

Teaching Intern - Gama Faculty, University of Brasilia (FGA-UnB).

Lectures given on the Artificial Intelligence course about Artificial Neural Networks and Genetic Algorithms.

September 2017 - February 2018

Python developer (intern) - LoopKey.

Development of communication, automation, and control systems via Bluetooth on embedded Linux systems with Python.

January 2017 - December 2017

Voluntary research intern.

Voluntary research intern for the Laboratory of Health Informatics (Laboratório de Informática em Saúde - LIS) of the University of Brasilia (UnB) on the project of technological development for the adaptation of artificial limbs on transfemoral amputees, working with electronics circuit design, Python, and applied Machine Learning models.

January 2016 - January 2017

Research Intern - Fundação de Apoio a Pesquisa do Distrito Federal (FAP-DF).

Scientific scholarship holder for the Laboratory of Health Informatics (Laboratório de Informática em Saúde - LIS) of the University of Brasilia (UnB) on the project of technological development for the adaptation of artificial limbs on transfemural amputees, working with electronics circuit design, Python, and applied Machine Learning models.

September 2014 - August 2015

Scholarship Holder - Coordenadoria de Aperfeiçoamento de Pessoal de Nível Superior (CAPES).

Exchange student and scholarship holder for the Science without Borders program of the Brazilian Government on the Budapest University of Technology and Economics (BME).

5 Skills:

5.1 Languages:

| Language: | Speaking | Reading | Writing |
|------------|----------|---------|---------|
| Portuguese | Native | Native | Native |
| Inglês | Fluent | Fluent | Fluent |
| Spanish | Basic | Basic | Basic |
| French | Basic | Basic | Basic |

5.2 General skills:

- Python;
- Go/Golang;
- C;
- Shell script;
- Git;
- Gitflow;
- Docker;
- Kubernetes;
- PostgreSQL;
- C#;
- *Machine Learning*;
- \LaTeX ;
- Matlab;
- Octave;
- Julia;
- Celery;
- RabbitMQ;
- Biomedical signal acquisition;
- Electronics and biomedical instrumentation;
- Analog and digital filtering;
- Arduino;
- Digital signal processing;
- Bot programming.