

Francisco de Souza Júnior

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ABOUT

Since beginning my career as a software developer nearly **ten years ago**, I've been collaborating with talented people to create incredible products. My work experience includes embedded software, machine learning, and back-end development. With such diverse experience, I consider myself a generalist software developer that becomes a specialist depending on my employer's needs. I also like to use this experience to create some odd maker projects.

EXPERIENCE

Skills and Interests

Python • Django • Flask
PySpark • C • C++

Back-end • IoT
Machine Learning

oowlish.com

working to petco.com
Remote
May 2021 - Present

Senior Back-end Python Developer • Python 3, Django, and PostgreSQL

Working full time for **Petco**, I'm assigned to VetPoint project. VetPoint is a scheduling system that uses reverse auctions to fill dark days on Vetco clinics and hospitals.

luizalabs.com

Brazil/Remote
Apr 2020 - May 2021

Senior Back-end Python Developer • Python 3, PySpark, Flask, and MongoDB

As a member of Reputation's Squad, we developed solutions to calculate the reputation score of Magalu Marketplace sellers. Here, I developed **ETLs** with PySpark to manage a **large amount of data** and **restful APIs** with Flask.

xmrobots.com

Brazil
Jul 2012 - Jan 2020

Software Development Lead

In the **R&D** department, I was responsible for the all **software stack** of the company's drones;

I was the software developer lead (**Java**, **C** and **C++**) of the **first Brazilian certified drone** by ANAC, The Arator 5B (chico.codes/work/arator-5b);

I **coordinated** a Control Station project for long-endurance drones in partnership with the FAPESP (chico.codes/work/pipe);

I worked on several peripheral products of the company, such as the RTK Base XBase (**C++**), the XMx Camera (**Java for Android**) or Web Services (**Python** and **Flask**);

I have developed with **C** and **C++** software that meets real-time requirements for drones operation, on **embedded Linux** and Windows platforms.

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Personal Projects

I like to develop personal projects to improve my knowledge. One of the most relevant is Toe Walking Detector, a software/hardware platform (**Python**, **Keras**, and **PyQt**) that uses an **IMU Sensor** and a **ConvNet** to detect when a person is toe walking instead of regular heel-to-toe walking (chico.codes/work/twd).

Other interesting projects, such as my IoT coffee grinder (**C++** and **Kotlin for Android**) or my IoT table lamp (**C++**, **Python** and **Java for Android**), can be found on my [website](#).

EDUCATION

São Paulo University

Brazil
Feb 2011 - Jul 2012
(dropped)

PhD in Computer Science • Autonomous Vehicles

Using **machine learning** and **computer vision**, I researched the detection and tracking of vehicles through LIDAR sensors and video cameras. In July 2012, I dropped the doctorate due to family reasons.

São Paulo University

Brazil
Feb 2008 - Feb 2011

MSc in Computer Science • Embedded Systems

I developed in **VHDL** a hardware architecture based on the Dataflow paradigm for **FPGAs**.

Barão de Mauá

Brazil
Feb 2004 - Dec 2007

BS in Computer Science

Average Grade: 9.0