Francisco de Souza Júnior

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ABOUT ME

Over my eleven-year career in software development, I have worked alongside skilled professionals and taken on leadership roles to deliver exceptional products. My expertise in systems software development includes back-end, desktop, and embedded software. This varied experience has equipped me to seamlessly transition between generalist and specialist roles, adapting to the evolving needs of my employer.

EXPERIENCE

loadsmart.com
Remote
Jun 2022 - Present

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

I am part of a team that successfully enabled the LTL mode in the company's systems, primarily using Django and PostgreSQL. In addition to serving as a project leader for several initiatives, I currently contribute as the team Tech Lead.

oowlish.com
working to **petco.com**
Remote
May 2021 - Jun 2022

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

Working full time for Petco, I was 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 Engineer • 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.

xmobots.com
Brazil
Jul 2012 - Jan 2020

Lead Software Engineer

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

I was the software engineer 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.

chico.codes

Personal Projects

I actively develop personal projects to enhance my skills, including the Toe Walking Detector, a Python, Keras, and PyQt-based software/hardware platform utilizing an IMU Sensor and ConvNet for detecting toe walking (chico.codes/work/twd). Additional projects, like my IoT coffee grinder and table lamp, are detailed 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