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https://capnsane.github.io/
https://github.com/CapnSane

LEONARDO BERLIM SCHNEIDER

SKILLS

Full stack developer - Technologies I have worked with:

- Linux (Arch, Manjaro Gnome), Windows
- Python 3 (Pandas, NumPy, TkInter, glob) (2 years)
- Node.js (2 years)
- HTML/CSS (Vanilla, Bootstrap) (2 years)
- JavaScript (Vanilla, jQuery) (2 years)
- TypeScript (1 year)
- Angular, Vue.js, NestJS (1 year)
- SQL (MySQL, SQLite) (basic)
- Github, Git (3 years)
- Markdown (10 years)

Data analysis/Statistics, Plotting, Computational Quantum Chemistry:

- Origin (15 years)
- *ab initio* (Gaussian, GAMESS) (6 years)
- Semiempirical (HyperChem) (6 years)

Languages

- Portuguese (native)
- English (fluent)
- Japanese (very starter - reading and writing Hiragana and Katakana)
- German (basic conversation)

EDUCATION

(Federal) University of São Paulo (USP) — *Postdoctoral in Physics*
2016 - 2018 (Brazil)

Federal University of Paraná (UFPR) — *Ph.D. in Physics*
2010 - 2014 (Brazil)

Federal University of Paraná (UFPR) — *M.Sc. in Physics*
2008 - 2010 (Brazil)

Federal University of Paraná (UFPR) — *B.Sc. in Physics*
2007 - 2008 (Brazil)

EXPERIENCE

Tarvos, São Paulo BR — *Junior Developer*

AUGUST 2020 - PRESENT

Farm pest monitoring is critical in decision-making. Tarvos develops an automated pest monitoring system that provides constant indications of pest occurrence in the crops.

What has been done:

- Implementation of the automated pest monitoring system in crops, programming in several languages.
- Back-end: application that accepts query parameters from the front-end, and then query my DB based on these parameters. Unit tests and warning messages are coded as well.
- Front-end: interface that acquires traps data from Firebase and shows as tables and charts, using different query filters.

Technology used:

- HTML / CSS (Vanilla, Bootstrap)
- JavaScript (Vanilla, jQuery)
- TypeScript
- Angular / NestJS
- Node.js
- Python 3
- Git, GitLab
- Firebase
- Markdown

iEA Soluções Educacionais, Paraná BR — *IT Support (Freelancer)*

FEBRUARY 2019 - SEPTEMBER 2019
FEBRUARY 2020 - MAY 2020

iEA is an editorial bureau that operates in the various book production process stages: authorship, editing, proofreading, translation, graphic design, and layout.

What has been done:

- Implementation, configuration, and customization of project management software Clarizen.
- IT support, configuration, and customization of project management software Clarizen, service of answering requests for specific reports and dashboards and identification of user usability needs.

Technology used:

- Python 3 (for script coding)
- Clarizen dashboards system
- Clarizen API (JavaScript/JSON based language)
- HTML/CSS (for Clarizen internal home page)

Molecular Biology Institute of Paraná (IBMP), Paraná BR – *Developer / Researcher*

JANUARY 2008 - DECEMBER 2015

IBMP is a government institute which integrates and contributes to the development of the Brazilian Economic and Industrial Complex of Health, working in applied research, technological development, innovation and industrial production of inputs and diagnosis kits for health.

What has been done:

- Development of a microfluidic chip for immunoassay multitest.
- Development of a point-of-care diagnostic system, which is performed at point-of-need locations.
    - Radial symmetry diagnostic lateral flow type device and reading system of radial symmetry diagnostic lateral flow type device - I have a patent on this product. Publication number: BR10201700600, Filing date: 23/03/2017, INPI, Brazil.

Technology used:

- Python 3 (full-stack system development, from hardware to software)
- Origin (for generating and data scientific analysis)
- CorelDraw (vectoring the technical drawings of the chip and reading machine)

COMPLEMENTARY INFORMATION

I am a physicist and I worked for over 12 years in multidisciplinary groups side by side with engineers, programmers, biologists, chemists, and physicians. I have over 10 years of experience in microscopy, photonics, biophysics, prototyping, and microfluidics engineering. Two years ago, I entered the programming world and since then I have explored my passion for programming and data analysis. Physics has been corroborating my critical and creative analytical thinking, which makes me an adaptive professional in several areas and groups. I'm always very motivated by being able to see the impact of my work on other people. My passion for continuous learning and problem solving is amplified by my background in Physics, which taught me how to build optimal solutions from scratch. And, I'm definitely looking for a position where I can grow, and work toward something I feel proud to be part of.