

+55 41 99604-6692  
lnrdschneider@gmail.com  
<https://capnsane.github.io/>  
<https://github.com/CapnSane>



# LEONARDO BERLIM SCHNEIDER

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## OBJECTIVE

With solid skills in system development, project management, and test automation, my goal is to enhance software efficiency and reliability through innovative testing methodologies and comprehensive support. Drawing on my experience as a scientific researcher, I am enthusiastic about collaborating with development teams, leveraging my expertise in analysis, programming, and strategic test design to deliver high-quality solutions. I am committed to facilitating project management, producing thorough documentation, and ensuring seamless integration of scientific principles into software development processes.

## 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)

## TECHNICAL SKILLS

### Full Stack Development:

- **Operating Systems:** Linux (Arch, Manjaro Gnome), Windows
- **Productivity Software:** Office (Excel, PowerPoint, Word), CorelDraw, Adobe XD
- **Web Technologies:** HTML5/CSS3 (Vanilla, Bootstrap), JavaScript (Vanilla, jQuery), TypeScript, Python3
- **Frameworks:** Angular, Vue3, NestJS
- **Testing:** Cypress, Mocha, Jest
- **Database:** SQL (MySQL, SQLite) (basic)
- **Version Control:** Github, Gitlab, Git
- **Cloud Services:** Firebase, Google Cloud

### Data Analysis and Computational Chemistry:

- **Analysis and Plotting:**
  - Origin
- **Computational Chemistry:**
  - **ab initio Modeling:** Gaussian, GAMESS
  - **Semiempirical Modeling:** HyperChem

## Language Proficiency:

- **Fluent Languages:**
  - Portuguese (native)
  - English (fluent)
- **Basic Proficiency:**
  - German (basic conversation - rusty), Japanese (very starter - reading and writing Hiragana and Katakana)

## EXPERIENCE

### Tarvos, São Paulo BR – Junior Developer

AUGUST 2020 – MAY 2024

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.
- Backend: application that accepts query parameters from the frontend, and then query my DB based on these parameters. Unit tests and warning messages are coded as well.
- Frontend: interface that acquires traps data from Firebase and shows as tables and charts, using different query filters.
- QA: conducted End-to-End (E2E) and manual testing to ensure system functionality and reliability. Developed and executed test cases, identified bugs, and reported issues for timely resolution.

#### Technology used:

- HTML/CSS (Vanilla, Bootstrap)
- JavaScript/TypeScript
- Angular/NestJS
- Cypress, Node.js, Python 3
- Git/GitLab, Jira
- Firebase/Google Cloud

### Unimal, Kagoshima JP – Developer (Freelancer)

APRIL 2022 – MAY 2023

Unimal is a promotion and content planning and production business. They are experts in the state of the art of website design, creation, and launch.

#### What has been done:

- Frontend and backend development of a website for Kyoto's eyewear brand named "Hello-o My Name Is..." (<https://helloomynameis.com/>).
- Frontend development of a website for Tokyo's cosmetics brand named "Hanamanyoh" (<https://hanamanyoh.com/>).
- Frontend components development of Unimal's own product, named Spearly (<https://cloud.spearly.com/>).
- Frontend: following the design chosen by the client, dynamic pages were created based on the mobile first strategy.

**Technology used:**

- HTML / CSS (Vanilla)
- Vue 3 / TypeScript
- Node.js
- Git, GitHub
- Firebase / Google Cloud
- Adobe XD

**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
- 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 and Python 2 (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 seasoned physicist with over 12 years of experience collaborating within diverse, multidisciplinary teams, alongside professionals ranging from engineers, programmers, biologists, chemists, to physicians. In 2019, I transitioned my career towards programming and software development, delving into my inherent passion for coding and data analysis. My background in physics has honed my critical and creative analytical thinking, rendering me an adaptable professional capable of thriving in various sectors and team environments. Witnessing the tangible impact of my work on others has consistently fueled my motivation. Rooted in a commitment to continuous learning and adept problem-solving, my physics background has equipped me with the skills to architect optimal solutions from the ground up. I am now actively seeking a position that fosters my growth, allowing me to contribute to meaningful projects that I can take pride in being a part of.