

Daniel Carlos Souza Santos

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Summary

Bachelor in Physics at USP with a background in full-stack web development and previous experience in data science. Has an academic interest in condensed matter physics with an emphasis on modern-day technologies. Looking to gain further experience in science and technology areas.

Professional Experience

Database Admin Intern

(May 2022- now)

Escola Politécnica da USP, São Paulo, Brasil

- Developed the security section of the institution's website, utilizing the default headers of Apache 2. Wrote a comprehensive Content Security Policy for the site and analyzed the page's JavaScript to prevent the system from SQL injection attacks.
- Set up and configured a server to handle a large volume of data related to various database replications through MSSQL. Additionally, I developed a custom method for transferring large amounts of information between two machines on different networks with blocked SSH communications.
- Developed and implemented backup routines through SQL queries and Shell scripting in both MSSQL and PostgreSQL. At this point, I built projects related to relational databases and the automation of large-volume database management in MSSQL.
- I built, maintained, and managed computer networks. Collaboration was undertaken with system administrators to strengthen the networks, and DHCP protocol was implemented in some of them.

Drone Mechanical Engineer

(May 2022- now)

SKYRATS Drone Team, São Paulo, Brasil

- I designed and developed frames for 4 and 6-blade drones. I also learned to use software such as SOLIDWORKS and Ultimaker Cura. I participated in courses and competitions with the aim of developing and refining my CAD skills.
- In this opportunity I also learned to use Microsoft's standard software such as PowerPoint and Excel, in addition to others like Photoshop and Blender. Still in this context, I developed the front-end of a website using HTML5, CSS3, and Javascript.

Education

- Bachelor's degree in Physics from the University of São Paulo with a weighted average of (8.7 /10). Currently in the fifth semester of the undergraduate program.
- Undergraduate research student in semiconductor physics at the Institute of Theoretical Physics (IFT UNESP).

Additional Skills

- Native Portuguese, fluent in English, basic Spanish.
- Python 3.10
- Javascript
- Apache2
- MSSQL
- MYSQL
- PHP