JULIO RIVEROS

in **LinkedIn** | 📱 +55 (45) 98834-9398 | 🌐 **woolierbrooks.com** | ✉ jcr.cardus.2020@aluno.unila.edu.br | ○ **GitHub**

Skills

- AWS | Git | Linux | Machine Learning | RNA-Seq Analysis
- Python | R | SQL
- Spanish, Portuguese, Guarani – *All professional proficiency or above*

Experience

Machine Learning Researcher in Biomedical Speech Analysis	**UNILA**	*Remote*	**09/2022 - Current**

- Employed Python-based tools to analyze voice data in Alzheimer's disease prediction, reaching a significant accuracy milestone of 79.17% using specific Machine Learning models.
- Processed voice recordings to extract relevant patient information, preparing it for numerical analysis.
- Conducted rigorous testing of various Machine Learning models, highlighting the inherent complexities and challenges in predicting Alzheimer's disease from voice data.

Drylab Lead Coordinator	**SynFronteras**	*Remote*	**08/2022 - 12/2023**

- Led the team as the drylab leader in a recognized achievement, securing a bronze medal in the overgraduate category of the iGEM (International Genetically Engineered Machine) competition.
- Led innovative molecular modeling efforts using AlphaFold2 and ColabFold2 to develop a precise 3D structure prediction for an uncharacterized protein, achieving a 91.02% structural similarity via ERRAT2, ensuring a reliable protein model.
- Conducted molecular dynamics simulations, emphasizing enhanced stability of the complex at lower temperatures, providing pivotal insights into its structural behavior. Additionally, led docking simulations and correlation analyses, revealing the fused complex's heightened affinity to substrates compared to individual proteins, indicating the potential for improved binding efficacy.

Teaching Assistant in Computational Thinking for Biotechnology	**UNILA**	*Paraná, Brazil*	**02/2023 - 06/2023**

- Designed problem sets to evaluate students' comprehension of computational methodologies, transforming abstract coding concepts into real-world applications using Python.
- Implemented customized Python coding exercises with biotechnology-oriented scenarios, ensuring a comprehensive understanding of computational thinking principles, resulting in a 100% pass rate.

Teaching Assistant in Computer Programming	**UNILA**	*Paraná, Brazil*	**08/2022 - 12/2022**

- Assisted in clarifying programming concepts and debugging code in Python for over 60 students.
- Utilized Python programming language, interactive sessions, and code reviews to explain fundamental programming principles, leading to an average improvement of 30% in students' coding proficiency within the semester.

Bio-Art Project Member	**Microlândia**	*Paraná, Brazil*	**04/2022 - 12/2022**

- Developed and executed unique artistic creations by leveraging the inherent properties of Bacteria and Fungi on Petri plates, merging scientific understanding with artistic expression in five innovative projects.
- Presented physical exhibitions featuring bio-artistic pieces cultivated from bacteria and fungi on Petri plates.

Social Media Manager	**LiNABiotec**	*Remote*	**05/2021 - 04/2022**

- Managed and curated engaging social media content, with a focus on Instagram and YouTube platforms.
- Achieved significant growth metrics, showcasing a remarkable 1190% increase in YouTube views and a substantial 97% rise in Instagram likes within a year.

Education

Bachelor of Science	**Universidade Federal da Integração Latino-Americana**	*Paraná, Brazil*	**02/2020 - Current**

- Major in Biotechnology
  - **Cumulative GPA:** 9.10 / 10.00
  - **Relevant Coursework:** Bioinformatics, Biostatistics, Cell and Tissue Engineering, Computer Programming, Genetic Engineering and Gene Therapy, Genetics of Microorganisms, Immunology Applied to Biotechnology, Molecular Biology, Omic Sciences.
  - **Additional Courses:** Jose Portilla's SQL Bootcamp on Udemy, Bulk RNA-Seq Data Analysis on Udemy.

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To-do

- Update linkedin   7-8
- Apply   10
- 1 google search clean 11
- OxtCyx?eJJIB73AKfz$b

Notes:

- The bullet points should contain the following structure: "I accomplished X (what) by doing Y (what technologies), resulting in Z.

    - 1. What did you do?   Action

    - 2. How did you do it?   Task

    - 3. Why was what you did was important?   Result Back it up w/ numbers (meaningfull metrics) It is better to write: "delivered on average 9 coffees a day with 100% accuracy on all orders for 3 months" than "I fetched coffee for senior associates during my summer internship" explain each point with more detail on likedin

- Find support email on the website and email them week by week.

Interview: (Once I finish my resume I should start working on this) remote/on-site

- I should be able to talk very fluently about the technical challenges that I encounter and I saw and implemented on my own for each bullet point.

- Ask: Is it possible that if I go into this internship process and I perform really well as an intern is that a change that I can convert to a full-time offer?

- Study basic DSA, and see if I can find some take home projects.

- Study about types of visas and which one would I need.

- • Databases: NCBI | EMBL-EBI | WGS, no colocar, pero saber, VER EXACTAMENTE QUÉ ES LO QUE QUIEREN
- Study bioinformatics on reddit

Compensation:

- 25-40 for an enrolled phd

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- 29.37 - 76.38 for microsoft

- 28.08 - 63.93 for the government

- 19 - 55 w masters or phd (enrolled)

- 19.97 non negotiable

- 30 - 50 california enrolled phd or ms

- 17.55 - 30.96 senior on bachelors

- 21 - 25 enrolled phd

Duration:

12 we

12 weeks

10 we

12 we

10-12 we