

MAIN AREAS OF INTEREST

- **Data Science, Machine Learning, Research & Development, Software Engineering**

PROFESSIONAL EXPERIENCE

- **Amazon** Remote - Brazil  
Applied Scientist II Feb. 2024 – Present  
Data Scientist II Mar. 2022 – Jan. 2024
  - Developing Machine Learning models to improve operations, profitability and customer experience for Amazon LatAm.  
*Technologies: AWS, Python, SQL*
- **Amazon** Sao Paulo, SP - Brazil  
Software Development Engineer II Dec. 2021 – Feb. 2022  
Software Development Engineer I Jul. 2020 – Nov. 2021  
Software Development Intern Jan. 2020 – Jul. 2020
  - Worked with both front and backend development. Modelled large scale applications, integrated with Amazon’s core internal systems to improve the seller and buyer experiences. *Technologies: AWS, Java, Python, NodeJs*
- **Serasa Experian** Sao Carlos, SP - Brazil  
MIS Intern Aug. 2019 – Dec. 2019
  - MIS (Management Information Systems) Intern. Worked with databases and on the construction of dashboards, in alignment with the needs of the Finance Department. *Technologies: SQL, SAS, Tableau*

RESEARCH EXPERIENCE

- **BioMaL - Bioinformatics and Machine Learning Group** Sao Carlos, SP - Brazil  
Masters Candidate Aug. 2021 – Dec. 2023  
Scientific Initiation Scholar Mar. 2015 – Sep. 2020
  - As a Master Candidate, I worked in the project entitled “**Climate Variables Forecasting and Forest Fire Risk Rate Classification in the Brazilian Pantanal**”, which was supported by Brazilian Agricultural Research Corporation (Embrapa). In such research, I had the opportunity to deep dive on **Time Series Forecasting** and **Genetic Algorithms**.  
*Technologies: Python, Docker*
  - As a scientific initiation scholar, I was the project team leader in the development of three scientific researches. Two of them funded by Sao Paulo Research Foundation (FAPESP) and National Council for Scientific and Technological Development (CNPq). Worked with different Machine Learning algorithms and datasets. Resulted in the publication of 5 papers.  
*Technologies: Python, R*
- **Katholieke Universiteit Leuven (KU Leuven)** Kortrijk, Flanders - Belgium  
Research Intern Sep. 2017 – Dec. 2017
  - Scientific research “**Predicting Protein Functions via Interaction Prediction**”. Funded by Sao Paulo Research Foundation (FAPESP). The main purpose was to model the protein function prediction task as a Hierarchical **Multi-label Classification** (HMC) problem through interaction data. *Technologies: Java*

EDUCATION

- **Federal University of Pernambuco (UFPE)** Remote - Brazil  
PhD in Artificial Intelligence Feb. 2025 – Present
- **Federal University of Sao Carlos (UFSCar)** Remote - Brazil  
Masters in Artificial Intelligence Aug. 2021 – Dec. 2023
  - **GPA:** 10/10
- **Federal University of Sao Carlos (UFSCar)** Sao Carlos, SP - Brazil  
Bachelor in Computer Engineering Mar. 2015 – Jul. 2020
  - **GPA:** 8.75/10

PROGRAMMING SKILLS

- **Languages:** Python (5 years); Java (5 years); R (2 years); SQL (2 years); C++ (6 months)
- **Others:** AWS, Git, Linux, Latex

LANGUAGE

- **Portuguese:** Native
- **English:** Fluent (Cambridge English Certificate ESOL Intl)

## PRESENTATIONS, PROCEEDINGS, AND PAPERS

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- **“A New Time Series Framework for Forest Fire Risk Forecasting and Classification”** Zamith B., Soriano, B., Narciso, M., Furtado, D., Cerri R. (2023). International Joint Conference on Neural Networks (IJCNN).
- **“Predictive Bi-Clustering Trees for Hierarchical Multi-label Classification”** Zamith B., Nakano, K. F., Cerri R., Vens C. (2020). European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML-PKDD).
- **“Strategies for Selection of Positive and Negative Instances in the Hierarchical Classification of Transposable Elements”** Zamith B., Pereira, T. G., Nakano, K. F., Cerri R. (2018). Brazilian Conference on Intelligent Systems (BRACIS).
- **“A Genetic Algorithm for Transposable Elements Hierarchical Classification Rule Induction”** Pereira, T. G., Zamith B., Cerri R. (2018). IEEE Congress on Evolutionary Computation (IEEE CEC).
- **“A New Machine Learning Dataset for Hierarchical Classification of Transposable Elements”** Zamith B., Cerri R. (2016). National Meeting of Artificial and Computational Intelligence (ENIAC).
- **“Decisions Trees for Hierarchical Classification of Transposable Elements”** Zamith B., Gomes Mantovani R., Schietgat L., Vens C., Cerri R. (2016). Proceedings of the 25th Belgian-Dutch Machine Learning Conference (Benelearn).

## CERTIFICATIONS

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- **Fundamentals of Probability and Statistics for Data Science (2025):** 30 hours online course provided by University of Sao Paulo (USP).
- **Practical Multi AI Agents and Advanced Use Cases with crewAI (2025):** 3 hours online course provided by DeepLearning.ai and crewAI.
- **Practical Time Series Analysis (2024):** 25 hours online course provided by The State University of New York (SUNY).
- **Generative AI with Large Language Models (2024):** 16 hours online course provided by DeepLearning.ai and Amazon Web Services (AWS).
- **Sequence Models (2022):** 38 hours online course provided by DeepLearning.ai.
- **Sequences, Time Series and Prediction (2022):** 23 hours online course provided by DeepLearning.ai.
- **Introduction to AWS (2020):** 5 hours online course provided by A Cloud Guru.
- **Version Control With Git (2019):** 12 hours online course provided by Atlassian.
- **Software Development Processes and Methodologies (2019):** 18 hours online course provided by University of Minnesota.

## OTHER PROJECTS

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- **School of AI - Health Hackathon (2019):** Team project aimed to develop an app which seeks to reduce patients waiting time (at hospitals queue). The patient types what he is feeling and then via Natural Language Processing the symptoms are classified into a medical specialty.
- **Intel IoT Roadshow (2015):** Team project aimed to develop a “smart” bathroom making use of relevant capacity utilization data, and trigger “on demand” cleaning process alert, which leads to resources use optimization.