

# Nicolau Santos

*CS PhD Candidate at UFRGS*

## Education

- 2023–Present **Ph.D.**, *Informatics Institute, Federal University of Rio Grande do Sul, Porto Alegre, INF-UFRGS.*  
Computer Science - Supervised by Ph.D. Mara Abel
- 2020–2023 **M.Sc.**, *Informatics Institute, Federal University of Rio Grande do Sul, Porto Alegre, INF-UFRGS.*
- 2016–2018 **M.Sc.**, *Escola Politécnica, University of São Paulo, Santos, POLI-USP.*  
Mineral Engineering - Oil and Gas
- 2011–2015 **B.Sc.**, *Catholic University of Santos, Santos.*  
Petroleum Engineering
- 2006–2008 **Military School**, *Brasília, Rio de Janeiro, Manaus, Brazil.*  
High School Diploma

## Additional Skills

LLMs	L <sup>A</sup> T <sub>E</sub> X	Ontology
Git	OWL	SPARQL

## Area of Interest

- Knowledge Representation
- Machine Learning
- Artificial Intelligence
- Ontology Engineering

## Experience

- 2025–Present **Data Analyst**, *Infex*, LLM-based software, SQL, Machine Learning, Ontology Engineering.

- 2024-2025 **Data Specialist**, *Vidya Technology*, Ontology Engineering, LLM integration, RAG, Virtual Knowledge Graphs, Machine Learning.
- 2021-Present **Researcher at UFRGS**, *PeTwin Project*, Grupo de Pesquisa Sistemas de Computação para E&P de Petróleo.
- 2018 **Professor at Universidade Católica de Santos**, *Subsurface Production Systems - Petroleum Engineering*.
- 2016-2018 **M.Sc Research Focus**, *Study of the influence of offshore drilling rigs heave motions in drillstrings dynamic behavior*, Supervisor: Prof. Dr. Ronaldo Carrion.
- 2014-2015 **Scientific Initiation Project (CNPQ)**, *Project Title: Study of the Variations of the Earth's Magnetic Field in Archaeological Materials in Southeast Brazil*, Supervisor: Dr. Gelvam Hartmann (USP).

### Extra-curricular activities

- 2021 **Professional Petroleum Data Management (PPDM)**, *Workgroup volunteer for What is a Facility and What is a Well Evergreen standards.*
- 2015 **Society of Petroleum Engineers (SPE)**, *Petrobowl team captain at UNISANTOS.*
- 2014-2015 **Society of Petroleum Engineers (SPE)**, *President and co-Founder of the Society of Petroleum Engineers Student Chapter at UNISANTOS.*

### Completed Courses

- May 2022 **Udemy course**, *"Git e contribuições para projetos Open Source"*.

### Languages

Portuguese **Mothertongue**

English **Fluent**

*Toefl IBT 101*

Spanish **Advanced**

*Con conversationally fluent*

### Personal Details


DOB 28th of January, 1992


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Github  <https://github.com/n0santos>