

# Vítor Amorim Fróis

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## SUMMARY

My academic experiences and skills have grown from my teenager hobbies: playing video games, chess and customizing my computer. During my teenage I joined Centro Federal de Educação Tecnológica (CEFET), a technical college in my city, where I obtained Electronics Technician diploma, competed in robotics tournaments and completed a scientific research on building a biometric system for CEFET's restaurant, all which grown my skills in team management, programming, electronics and mechanics.

With the experience acquired at CEFET, I decided to start a Computer Science Bachelor at Universidade de São Paulo (USP), in which I could find myself growing as a professional and person. At USP I participated in DATA ICMC activities such as study groups, project and events and completed a scientific research on introduction to Complex Networks. During 2023, I had the opportunity to work as Data Engineer intern at Clave Capital, where I learned more about finances and had a great experience with the market.

Currently, I am finishing the bachelor studies. I coordinate secretarial duties and participate at Deep Learning and Data Engineering study groups at DATA ICMC, contribute actively to Mesa Project open source library and conduct a scientific research in the convergence of complex systems and machine learning. I believe all activities which contribute to my comprehension of DevOps, ML theory and applied systems, and soft skill as group work, critical thinking, problem solving, public speaking and leadership.

## EDUCATION

<b>Centro Federal de Educação Tecnológica de Minas Gerais (CEFET)</b> Technician in Industrial Electronics	Jan 2018 - Dec 2020 <i>CEFET Website</i>
<b>Universidade de São Paulo (USP)</b> Undergraduate at Computer Science	Jan 2021 - Dec 2025 <i>USP Website</i>

## WORK EXPERIENCE

<b>Applied Machine Learning Scientific Research</b> Machine learning-based prediction of Sznajd model in complex networks with Prof. Francisco Rodrigues. ⇒ This project aims to use machine learning to predict with high accuracy dynamic variables associated with the Sznajd model in Complex Networks, contributing to a better understanding of the physics of social phenomena.	Jan 2024 - Today <i>No Repository Yet</i>
<b>Intern at Clave Capital</b> Internship at Clave Capital Fund Management - Risk ⇒ Working with python, scripts, automation and data visualization.	Dez 2022 - Sep 2023 <i>Clave Website</i>
<b>Complex Networks Scientific Research</b> Scientific Research student focused on Complex Networks with Prof. Diego Amâncio ⇒ Complex networks, linear algebra and random network models.	Aug 2022 - Aug 2023 <i>Research Repo at GitHub</i>
<b>Embedded Systems Scientific Research</b> Professor Advisor: Mateus Antunes Oliveira Leite ⇒ During one year, a biometric system was developed to substitute RFID system (identification with cards) on CEFET's restaurant. Techniques of programming and to deal with biometric readers were learned.	Jul 2019 - Jul 2020 <i>Final Internship Report at LinkedIn</i>

## PROJECTS

<b>Mesa Colaborator</b> Mesa is an open-source Python library for agent-based modeling. ⇒ Collaborating in open source initiative which allows modelling complex systems in Python: #2084, #138.	Abr 2023 - Today <i>Mesa Git Page</i>
<b>DATA Coordinator</b> DATA is an extension group at USP focused on Data Science ⇒ Coordinating Machine Learning Projects which can be found at <i>DATA's Github</i> .	Aug 2023 - Today <i>DATA's Website</i>
<b>Hugging Face Colaborator</b> Translating HF Transformers Tutorials to Portuguese ⇒ A team of DATA's members grouped with Hugging Face, open source ML company, with the objective of translating Transformers tutorials to Portuguese.	Mar 2022 - Today <i>Hugging Transformers Git Page</i>

## SKILLS

**Computer Science topics:** Complex Networks, Data Science, Functional Programming, OOP, Data Structures and Algorithms, Linear Algebra File Organization, Open Source Systems, Dynamic Programming, Discrete Math  
**Programming languages:** C, C++, Python, React, JavaScript, Java, Jupyter  
**Languages:** Portuguese (Native), English (Advanced), Spanish (Basic)  
**Miscellaneous:** Git, Linux, Shell, LaTeX, Arduino, Chess

## ACHIEVEMENTS

<b>OBA Gold Medal</b>	Won gold medal at national astronomy contest (Olimpíada Brasileira de Astronomia)	2020
<b>OBR Silver Medal</b>	Won silver medal at robotics theory national contest (Olimpíada Brasileira de Robótica)	2019
<b>Chess National Master</b>	Obtained NM title from Confederação Brasileira de Xadrez	2017
<b>Chess Candidate Master</b>	Obtained CM title from Fédération Internationale des Échecs	2013