Vinícius Braga Freire

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Academic Background

11/2020 to 12/2024	**Universidade Federal de Minas Gerais** *B.S. in Information Systems* - GPA: 4.93 / 5 - NSG: 95.40 / 100.00	Belo Horizonte, Brazil
03/2017 to 12/2019	**CEFET-MG** *High School – Electronics Technician* - Participated in Institutional Program of Scientific Initiation Scholarships for High School Students (PIBIC Jr).	Belo Horizonte, Brazil

Professional Experiences

12/2022 until now	**Parallelization and Augmentation for SMT Solver Verifier** *Undergraduate Research - UFMG* - Worked on the parallelization of Carcará, an SMT proofs verification and elaboration tool.	Belo Horizonte, Brazil
11/2021 to 11/2022	**Web Visualizer for SMT Solver Proofs** *Undergraduate Research - UFMG* - Project whose objective is to provide customizable views through graphs and tables to improve the comprehension of the proofs and the operation of SMT solvers, particularly the cvc5; - Contributed to the open-source solver cvc5 implementing a compiler feature for Web Assembly, allowing the solver to run in web browsers. In addition, implemented updates in the print and traverse of the proofs; - Developed the visualizer in TypeScript using the React and Redux libraries.	Belo Horizonte, Brazil
08/2018 to 07/2019	**Computer Vision applied to Automation** *Undergraduate Research – CEFET-MG* - Multidisciplinary project whose objective is to apply computer vision techniques, using low-cost hardware (Raspberry Pi), for industrial automation; - Developed a system and your interface in Python to control the quality of cookies on a production belt using the computer vision techniques learned during the project. Also integrated the software with the electric part of the system; - Documented the process, techniques used and the project's evolution in a logbook and final report.	Belo Horizonte, Brazil

Technical Skills

Programming Languages	Assembly, C, C++, C#, Rust, Python and TypeScript.
Others Technologies	HTML, CSS, PostgreSQL, Git and Pentaho tools (ETL, OLAP, …).

Complementary Training

09/2021 to 10/2021	**Build Deep Learning Models with TensorFlow** Codecademy *Deep Learning course about:* • Fundaments of *Deep Learning* and *Tensorflow*; • Classification e regression; • Neural networks, convolution, e CNN's.

Languages

Portuguese   Native Language

English   Full Professional Proficiency

French   Basic