

Gabriel Milan

Engineering student

Undergraduate student in Electronic and Computer Engineering.

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EDUCATION

Undergraduation

UFRJ - Federal University of Rio de Janeiro

04/2016 – Present

Rio de Janeiro, Brazil

Courses

- Electronic and Computer Engineering

Technical Degree

Unicamp - State University of Campinas

12/2014

Limeira, Brazil

Courses

- Industrial Mechanics

WORK EXPERIENCE

Collaborative Researcher

ATLAS Experiment / CERN

08/2019 – Present

Geneva, Switzerland

Achievements/Tasks

- Neural network-based online filtering solution.

Research & Development Fellow

Technological Applications Laboratory for the Productive Sector / UFRJ

01/2018 – Present

Rio de Janeiro, Brazil

Achievements/Tasks

- Tamper detector for electricity meters;
- Smart access control system;
- Quality Analyzer for Electricity Supply in Medium Voltage.

Fellow Researcher

Signal, Multimedia and Telecommunication Laboratory / UFRJ

07/2017 – 12/2017

Rio de Janeiro, Brazil

Achievements/Tasks

- Passive sonar signal classification and novelty detection using Machine Learning.

Intern

Maxion Wheels / IOCHPE-Maxion

01/2015 – 03/2016

Limeira, Brazil

Achievements/Tasks

- Planning and follow-up of tooling construction;
- Design auxiliary software for general management of the tool shop;
- Management of tooling international shipping.

SKILLS

Software development

Teamwork

Goal-oriented work

Agile development

Analytical thinking

Project management

PERSONAL PROJECTS

Computer Grid for LPS/UFRJ (08/2019 – Present)

- Jobs are submitted as docker containers that will split into CPU and GPU queues, managed by Kubernetes.

Python Framework for Online Systems (07/2019 – Present)

- Eases manipulation of multiple running threads and shared resources;

AI-based document analyzer (11/2017 – 05/2018)

- Natural Language Processing with multiple Machine Learning models, in order to find nonconformities.

Robotic Sailboat (11/2016 – 06/2017)

- 1st place project in the 11th International Robotic Sailing Competition.

CERTIFICATES

Lean Six Sigma White Belt

IOCHPE-Maxion (2015)

SOFTWARE AND PROGRAMMING LANGUAGES

C++, Python, Julia, VBA, Node.js, MATLAB, CSS, Git

SolidWorks, Solid Edge, Inventor, AutoCAD,

SQL, NoSQL.

LANGUAGES

English

Bilingual Proficiency

INTERESTS

Artificial intelligence

Entrepreneurship

Data science

High Performance Computing