



Victor Fernando Lopes de Souza

Engineering Student at CentraleSupélec



8 July 1999, Brazilian



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About me

Aaa

Skills

Aaa

Education

| | | |
|-----------|---|---------------------|
| 2022-2023 | Université Paris-Saclay Master in Systems, Signals and Image Processing | Gif-Sur-Yvette (FR) |
| 2021-2023 | CentraleSupélec Engineering, with mention in Control | Gif-Sur-Yvette (FR) |
| 2018-2023 | UFSC - Universidade Federal de Santa Catarina Control and Automation Engineering PAM - Advanced Mathematics Program | Florianópolis (BR) |
| 2021-2022 | Paris IV - Sorbonne Université Bachelor's degree in Philosophy | Paris (FR) |
| 2014-2017 | IFSC - Instituto Federal de Santa Catarina Engineering Technician in Electronics | Florianópolis (BR) |

Work Experience

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|-----------|--|--------------------|
| 2020-2021 | Student Researcher in Neural Nets <i>at EMBRAPPII, in partnership with Central Energia (R&D on trading)</i> Worked on building, training, and evaluating LSTM networks regarding the prediction of precipitation data for energy trading | Florianópolis (BR) |
| 2018-2021 | Student Researcher in Algebraic Topology <i>at IMPA (Brazilian Institute of Pure and Applied Mathematics)</i> Research on advanced topics related to Geometric Group Theory | Florianópolis (BR) |
| 2018-2019 | Calculus Teaching Assistant <i>at the Mathematics Department, UFSC</i> Developed PHP, Shell, BASIC and Kernel scripts to automate tasks related to the management, monitoring and control of the backbone | Florianópolis (BR) |
| 2016-2017 | Intern as Web Developer <i>at Oi S.A. (third largest telecommunication company in Latin America)</i> Developed PHP, Shell, BASIC and Kernel scripts to automate tasks related to the management, monitoring and control of the backbone | Florianópolis (BR) |

Projects

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|-----------|---|---------------------|
| 2022 | Training Neural Networks with Kalman Filters Implementation of modern control methods for training Neural Nets and use of the Kalman filter as an optimization algorithm | Gif-Sur-Yvette (FR) |
| 2022 | Exploring portfolio optimization methods, with BNP Construction, Implementation and Evaluation of different portfolio allocation methods | Gif-Sur-Yvette (FR) |
| 2022 | System for inform on cancer, with Health Guide AI Testing of different recommendation algorithms for this purpose | Gif-Sur-Yvette (FR) |
| 2021-2022 | Neural Nets: Attacks and Robustness, with SystemX Study and implementation of some attack methods on NN systems | Gif-Sur-Yvette (FR) |

Honours and Awards

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| 2021 | BRAFITEC, Merit Scholarship for Double Degree in France |
| 2019 | Qualified to Final Phase, OBMU (National University Maths Olympiad) |
| 2018 | Freshman Award, OEI (Organization of Ibero-American States) |
| 2017 | Silver Medal, OBMEP (National High School Mathematics Olympiad) |
| 2016 | Silver Medal, OBMEP (National High School Mathematics Olympiad) |
| 2014 | Honourable Mention, OBMEP (National High School Maths Olympiad) |