Victor Fernando Lopes de Souza

Engineering Student at UFSC and CentraleSupélec

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About Me

Passionate for innovation and technology. Interested in approaching complex problems and grasping complex concepts.

Looking for a final year internship starting in May 2023.

Enthusiast of Mathematics, System Modeling, Control Systems and Temporal Logic.

Skills

Development and Software

Python | Pandas | Numpy | Tensforflow | Keras | Matlab | Simulink | Git | JavaScript | Linux | LaTeX | R | Java | C++ | PHP | SQL

Academical Background

Control Systems | Temporal Logic | Probabilistic Models | Optimization | Automata | Algorithms

Languages

Portuguese (native) | English (C1) | French (C1) | Spanish (B2)

Education

2018-2024	**UFSC - Universidade Federal de Santa Catarina** Control and Automation Engineering PAM - Advanced Mathematics Program	Florianópolis (BR)
2021-2023	**CentraleSupélec** Engineering, with mention in Control	Gif-Sur-Yvette (FR)
2022-2023	**Université Paris-Saclay** Master in Systems, Signals and Image Processing	Gif-Sur-Yvette (FR)
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

2023	**Data Science Intern** *at Amadeus IT Group* Developed an advanced machine learning system integrated into the Amadeus Smart Cache. Prototype submitted for patent application	Nice (FR)
2020-2021	**Student Researcher in Neural Nets** *at EMBRAPII, in partnership with Central Energia (R&D on trading)* 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** *at IMPA (Brazilian Institute of Pure and Applied Mathematics)* Research on advanced topics related to Geometric Group Theory	Florianópolis (BR)
2018–2019	**Calculus Teaching Assistant** *at the Mathematics Department, UFSC* Hosted office hours to assist undergraduate students	Florianópolis (BR)
2016–2017	**Intern as Web Developer** *at Oi S.A. (third largest telecommunication company in Latin America)* Developed PHP, Shell, BASIC and Kernel scripts	Florianópolis (BR)

Projects

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** Implementation and Evaluation of some 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)

Honours and Awards

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)