LUIZ FERNANDO
PUTTOW SOUTHIER

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EDUCATION 🎓

Post Doctorate in Artificial Intelligence	Mar 2023
Federal University of Technology - Parana, Pato Branco, Brazil	Mar 2025

MBA in Artificial Intelligence and Big Data	Mar 2023
University of São Paulo, São Paulo, Brazil	Oct 2024

PhD in Data Science	Sep 2019
Pontifical Catholic University of Parana, Curitiba, Brazil	Mar 2023
GPA: 10.0/10.0	

Master of Science in Electrical Engineering	Sep 2017
Federal University of Technology - Parana, Pato Branco, Brazil	Sep 2019
GPA: 9.5/10.0	

Bachelor of Science in Computer Engineering	Sep 2017
Federal University of Technology - Parana, Pato Branco, Brazil	Mar 2011
GPA: 8.6/10.0	

Scientific Mobility Program for Bachelor of Science in Computer Engineering Specialization in Web Design	Aug 2013
The Pennsylvania State University, University Park, PA	Dec 2014
GPA: 4.0	

Intensive English Communication Program	Aug 2013
The Pennsylvania State University, University Park, PA	Dec 2013
GPA 4.0	

EMPLOYMENT EXPERIENCE 💼

Professor	May 2023
Federal University of Technology - Parana, Pato Branco, Brazil	
Professor and Researcher at the undergraduate Software Engineering program.	

Researcher. Head of research team	Mar 2023
Federal University of Technology - Parana, Pato Branco, Brazil	Mar 2025
Solution to correlate patterns in children's fingerprints with signs of the same individual at later ages.	

Researcher. Advisor Edson Scalabrin - PhD	Aug 2019
Pontifical Catholic University of Parana, Curitiba, Brazil	Mar 2023
UpFlux, Jaraguá do Sul, Brazil	
Development of a framework to understand and review clinical processes.	

Researcher. Advisor Marcelo Teixeira - PhD	Sep 2017
Federal University of Technology - Parana, Pato Branco, Brazil	Aug 2019

Development of a web tool for public administration of the municipality of Vacaria, Brazil

Research Assistant. Advisor José Donizetti de Lima - PhD   Mar 2015
Federal University of Technology - Parana, Pato Branco, Brazil   Jul 2017
Development of a web tool for Study and Research in Economic Feasibility of Investment Projects - SAVEPI

Research Assistant. Advisor Dennis Shasha - PhD   May 2014
New York University, NY, USA   Aug 2014
Development of a web tool for meal planning with Linear Programming

Research Assistant. Advisor Teodora Pinheiro Figueroa - PhD   Mar 2011
Federal University of Technology - Parana, Pato Branco, Brazil   Aug 2013
Development of web system for planned harvest of eucalyptus forest

ACADEMIC SKILLS

- ✓ Algorithms and Data Structures
- ✓ Analytic Geometry
- ✓ Artificial Intelligence
- ✓ Big Data
- ✓ Calculus
- ✓ Communication Systems
- ✓ Compilers
- ✓ Complex Networks
- ✓ Computational Security
- ✓ Computer Architecture and Organization
- ✓ Computer Graphics
- ✓ Computer Networks
- ✓ Computer Theory
- ✓ Content-Based Retrieval
- ✓ Control of Discrete Event Systems
- ✓ Control Systems
- ✓ Data Engineering
- ✓ Data Governance
- ✓ Data Management
- ✓ Data Mining
- ✓ Data Science
- ✓ Data Visualization
- ✓ Databases
- ✓ Deep Learning
- ✓ Digital Systems
- ✓ Discrete Mathematics
- ✓ Distributed Systems
- ✓ Economy
- ✓ Electric Power Systems
- ✓ Electronics and Instrumentation
- ✓ Embedded Systems
- ✓ Entrepreneurship
- ✓ Human-Computer Interaction
- ✓ Linear Algebra
- ✓ Machine Learning
- ✓ Multimedia Data Analysis
- ✓ Natural Language Processing
- ✓ Neural Networks
- ✓ Operational Systems
- ✓ Optimization Methods
- ✓ Probability and Statistics
- ✓ Process Mining
- ✓ Reconfigurable Logic
- ✓ Research Methodology
- ✓ Robotics
- ✓ Signal Processing
- ✓ Software Engineering
- ✓ Technical Drawing
- ✓ Text Mining

SOFTWARE SKILLS

- ✓ C++
- ✓ CSS
- ✓ HTML
- ✓ Java
- ✓ JavaScript
- ✓ MATLAB
- ✓ PHP
- ✓ Python
- ✓ MySql
- ✓ SqlServer
- ✓ PostgreSQL
- ✓ Adobe Suite
- ✓ Corel Draw
- ✓ Google Search
- ✓ Microsoft Office
- ✓ Simulink

INVOLVEMENT

2017-2019	**Instructor**, Excel Course
2015-2019	**Instructor**, MatLab Course
2016-2017	**President**, Computer Engineering Students Body
2011-2013	**Member**, Continuing education in Theater Workshop - Group Artificer
2011-2013	**Member**, Continuing education in English language
2012-2013	**Instructor**, Hypertext Markup Language Course
2012-2013	**Instructor**, Integral Differential Calculus Course
2011-2012	**Instructor**, Computer Graphics - Mathematical Foundations