VICTOR S. S. BARROS
AI | Machine Learning Engineer

I have over 30 years of experience in the Information Technology field. I have extensive experience as a systems analyst, programmer, information systems consultant, Machine Learning engineer and data analyst, working in development. CID: M24-6; M21-5

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SP- Brazil 📍

youtube.com/@proftiovictor2104 ▶

Languages

- English (Advanced professional)
- Portuguese (Native)

Professional Experience

Full-Stack Developer | Machine Learning Engineer | Data Analyst
SORRAB COMPUTATION, SP- Brazil   *July 1997 - Present*

- Led teams in the successful delivery of several projects, strong problem-solving skills and ability to work in a collaborative environment, resulting in customer satisfaction.

- Developed and maintained project plans, ensuring timely completion of milestones. Worked as an IT consultant, programmer analyst in C, C#, C++, Delphi IntraWEB and Java - J2EE.

- Development of financial administrative systems for companies, a loan control system developed in Java - J2EE (Eclipse and JBoss), an academic control system developed in Java - J2EE (Eclipse and JBoss), ERP systems developed in C# .NET or Delphi and for a real estate company, a property demonstration system (Delphi IntraWEB), allowing searches and navigation within buildings, reducing the number of visits.

- Implementation of dashboards for analysis of company data, in order to generate business ideas.

Full-Stack Developer | Machine Learning Engineer and Prompt Engineer
Avanade Brasil, SP- Brazil   *August 2022 - April 2024*

- Full-Stack C# Developer - Hospital Israelita Albert Einstein.
  - Creation of endpoints for access to the SQL database and API integration.

- Machine Learning Engineer and Prompt Engineer - Grupo Fleury.
  - Training a Neural Network (Python, Tensorflow and Pandas) to classify exam images and subsequently extract information (ChatGPT).

Tutor

CEDERJ - RJ Science and Distance Learning Center   *July 2006 - December 2013*

- Tutor of the subjects Architecture and Systems Design 1, Systems Engineering, Programming (Pascal), Language 1 (Delphi), Fundamentals of programming, Design and Development of Algorithms, Data Structures, Construction of WEB pages and Introduction to Computing.

Professor
Unilagos College, UNILAGOS, RJ- Brazil   *July 2005 - December 2012*

- Professor of Applied Computing, teaching how to research and create a project and present it.

Professor
CEFET CAMPOS, RJ- Brazil   *May 2007 - December 2009*

- Teacher: Database, Data Structure, Project Analysis, Programming Language - Delphi, Programming Logic, Object-Oriented Programming, Low-Level Programming - Assembly, Visual Basic.

Trainee
LNCC - National Scientific Computing Laboratory, RJ- Brazil   *March 2004 - December 2004*

- Internship in the development of a scientific system, programmed in C language, to predict slope runoff, using a geographic database run on a computational Grid with WebServices (GridServices).

IT consultant
CORFA - Reserve Officers Club, RJ- Brazil   *February 2004 - September 2004*

- Development of a system for administrative control responsible for bank control of partners and real estate financing.

Aviation electronics technician
PAMAGL - Galeão Aeronautical Material Park, RJ- Brazil   *July 1994 - March 1997*

- Electrical metrology technician responsible for metrological test automation (analysis, design, programming and implementation in C language). Responsible for installing (software and hardware) a network of 120 computers.

Education

Higher - Geoprocessing Technology
FATEC - Faculty of Technology, Jacareí - SP   *February 2020 - In progress*

Master's Degree in Computing - Computer Vision using Geometric Algebra
UFF - Fluminense Federal University, Niterói - RJ   *June 2011 - December 2013*

Postgraduate - Higher Education Teaching

Unilagos College, UNILAGOS, Araruama - RJ   *March 2009 -*
July 2010

Higher - Degree in Mathematics
UFF - Fluminense Federal University, Niterói - RJ   *July 2003 -*
June 2007

Bachelor of Information Systems
UNIGRANRIO - University of Grande Rio, Silva Jardim - RJ   *March 2000 - November*
2004

Certifications

1. DP-900: Microsoft Azure Data Fundamentals
2. AI-900: Microsoft Azure AI Fundamentals
3. AZ-900: Microsoft Azure Fundamentals
4. SC-900: Microsoft Security, Compliance, and Identity Fundamentals
5. MS-900: Microsoft 365 Fundamentals
6. PL-900: Microsoft Power Platform Fundamentals
7. MB-910: Microsoft Dynamics 365 Fundamentals (CRM)
8. DP-100: Designing and Implementing a Data Science Solution on Azure
9. AI-102: Designing and Implementing a Microsoft Azure AI Solution
10. PL-100: Microsoft Power Platform App Maker
11. PL-300: Microsoft Power BI Data Analyst
12. PL-400: Microsoft Power Platform Developer
13. PL-600: Microsoft Power Platform Solution Architect

Professional Development

Artificial Intelligence
INPE - National Institute for Space Research, São José dos Campos - SP   *March 2000 -*
July 2022

- Analysis of statistical data from Sentinel 1 and 2 satellites for classification of land use and coverage in the Amazon region: This work aims to perform an exploratory analysis of statistical attributes from Sentinel-1 and Sentinel-2 satellites with the aim of analyzing the possibility of classifying land use and coverage, in a specific region, through a Deep Neural Network (DNN), TensorFlow, Sklearn, Keras and Pandas using as a reference parameter the Big Data from MapBiomas collection 6, which would allow monitoring of changes in a shorter period of time.

- Repository and article: https://github.com/vicssb/Artificial-intelligence-in-INPE---2022

Various Bootcamps
Digital Innovation One
2021 - 2024

- Proposal-to-reduce-costs-in-pharmacies-with-automatic-aws-orders
- My_Polyglot_app
- Lab_asset_forecast
- Chatbot-gemini-api

- [Quarkus-election-system](#)
- [Sales-Report-with-Power-BI](#)
- [reactNativeFlashLight](#)

- Link: https://www.dio.me/users/vicssb

Big Data, Data Science, Data Analysis, Microsoft Power BI and AI
Data Science Academy   *March* 2020 - *November 2020*

3D Graphics Systems
IMPA -National Institute of Pure and Applied Mathematics Association   *January* 2007 - *July 2007*

Skills

- Project Management
- Agile & Scrum Methodologies
- Collaborative Environment

- Stakeholder Management
- Team Leadership
- Microsoft Project

- Teach
- Communication
- Problem-Solving

Software Skills

- Python
- Java
- CUDA
- C / C++ / C#
- R / MATLAB

- Generative AI
- Amazon Bedrock
- ChatGPT
- Azure OpenAI Studio
- Azure Machine Learning

- SQL
- Power BI
- Object orientation
- Linux
- Computer Vision

Awards & Honors

HONORABLE MENTION IN THE STATE MATHEMATICS OLYMPIAD
IMPA - National Institute of Pure and Applied Mathematics Association   *August 1992*