

Laercio Simões

SUMMARY

With over 30 years of experience in the software industry, Laercio is a highly talented professional known for his innovative contributions across a multitude of sectors, including banking, healthcare, automotive, metallurgy, food, education, accounting, television, law, and advertising. His exceptional work has been recognized with several awards in Brazil, the United States, Chile, and Argentina. Current focus is on leveraging his extensive expertise in artificial intelligence, particularly generative AI, to drive advancements in the medical field. His pioneering efforts are aimed at revolutionizing healthcare by enhancing diagnostic and treatment capabilities through state-of-the-art AI technologies.

EDUCATION

National University of Cordoba - Argentina	2018-2018
Specialization Data Science & Machine Learning	
National University of Cordoba - Argentina	2016-2018
Master's degree Public Health	
Singularity University - USA	2011-2011
Global Studies Program	
University of Sao Paulo - Brazil	2004-2010
PhD Candidate, High Performance Computing	
Methodist University of Piracicaba	1989-1991
Bachelor of Data Processing	

CERTIFICATIONS

Microsoft Azure Architect Design	2020
Google Professional Cloud Developer	2019
Google Professional Cloud Architect	2019
Google Professional Data Engineer	2019

MENTORS

High Performance & Digital Marketing	Joel Jota
Finance and Investment	Thiago Nigro

PUBLISHED BOOKS

Seja Herói de Si Mesmo www.sejaheroidesimesmo.com
 iPhone Microsoft Exchange Server 2010: Business Integration and Deployment packtpub.com

Grants & Prizes

SEEDS – Brazil	2023
6to Ciclo de Inovacao APEX - Argentina	2017
Blackberry Emprende - Argentina	2013
Startup Chile - Chile	2012
Singularity University - USA	2011
PRIME - FINEP - Brazil	2009
Microsoft Windows Vista Code Master Challenge	2006
Microsoft Imagine Cup - Software Design - Sao Paulo	2004

EMPLOYMENT HISTORY

Biohacking.AI, CEO

2022 - Actual

I am the creator of Biohacking.ai, a groundbreaking platform designed to apply artificial intelligence to encourage healthy habits, improve self-performance, and detect pathologies at early stages. Biohacking.ai operates as a B2B platform, providing APIs that enhance the functionality of customer applications.

Key Responsibilities and Achievements:

Platform Development: Architected and developed a microservices-based platform using C#, integrating a data lake and a sophisticated machine learning environment. The solution employs both supervised and generative models, forming a Retrieval-Augmented Generation (RAG) system.

Mobile Application Development: Led the development of mobile applications, utilizing Kotlin for Android and Swift for iOS, ensuring seamless user experiences across platforms.

Big Data and AI Integration: Engineered Big Data and AI modules using Python and LangChain, leveraging the Azure Stack to provide robust, scalable solutions.

Blockchain Implementation: Designed and implemented blockchain protocols using Rust, with registrations on the SUI Blockchain to ensure security and transparency.

My role at Biohacking.ai showcases my ability to lead complex projects, from initial concept through to full implementation, combining expertise in software engineering, machine learning, mobile development, and blockchain technology.

Technical Skills:

Programming Languages: C#, Python, Kotlin, Swift, Rust

Technologies and Tools: Azure Stack, LangChain, Data Lake, Microservices Architecture, RAG Systems

Methodologies: Supervised Learning, Generative Models, Blockchain Protocols

I am eager to bring my extensive experience and innovative mindset to a new role as a Machine Learning Engineer, contributing to the advancement of cutting-edge technologies and transformative solutions in the AI space.

Globant, Data Architect & Technical Manager

2018 - 2023

Globant is a digitally native company where innovation, design, and engineering meet scale. They use the latest technologies in the digital and cognitive field to transform organizations in every aspect. They have more than 12,500 employees and are present in 16 countries working for companies like Google, Rockwell Automation, Electronic Arts and Santander, among others.

Great Minds – Technical Manager

09/2022 – 06/2023

- Tech Manager for Data Analytics to Great Minds. Great Minds makes knowledge accessible to all in the form of high-quality curricula in mathematics, English, language arts, science and more.
- Our teams have more than 250 people and our database actually has more than 1,840,000,000 records

Ernst Young – Technical Manager

01/2022 – 09/2022

- Lead Architect to Technology Platform that provides a set of Services, tools, and platform products for developers to create our applications and products.
- The Technology Platform provides building blocks, patterns, or services that are reused in a large number of products. Developers embed these building blocks and services in their products, driving more adoption of the platform

Deloitte – Technical Manager

01/2021 – 12/2021

- Search Engine Expert – Evaluate Search Engine Performance
- Query Optimizations and Accuracy
- Mentoring Developers Team

Ernst Young Technical Leader

01/2020 - 12/2020

- Atlas project migration from Solr to Coveo to have a Machine Learning incorporated to Search Engine for Ernst & Young
- Worked in a multicultural team with 53 collaborators in Germany, France, Russia, Argentina, India, China & USA
- Optimization Indexing Processing improving in 45%
- Configuration Machine learning Features

Technologies: Scrum, Azure, C#, SQL Server, BackboneJS, Solr, Coveo.

Ernst Young Data Architect

03/2019 - 12/2019

- Business Intelligence Leader for the Ernst & Young
- Lead 4 developers and worked with 70 collaborators at the account
- Worked in a multicultural team in Colombia, Argentina, India, China & USA
- Create Management Reports
- Training team to create new Business Reports

Technologies: Scrum, Power BI, Azure, C#, SQL Server, Angular.

ADO Group & Google, Technical Leader & Data Architect

2018 - 2019

- Worked for the Grupo ADO - Mexico for a Face Recognition Project with Google Team
- Managed a database of about 18 Million videos and 6 petabytes. Daily the application generated 16TB.
- Worked in a multicultural team in Mexico, Colombia & Argentina
- Optimized the Face Recognition processing improving at 1750%
- Build the pipeline to manage 2.5 PB of video files

Technologies: Scrum, Python, Open CV, Node.js, TensorFlow, GCP, Big Query.

We Find Video, CTO

2019 - 2020

We Find Video records TV & Radio 24 hours from Argentina and Paraguay to detect ads and extract context information for the political evaluations. Working with CVA Medios that has 23 years on the market to get better results with less people and avoiding manual tasks.

- Build Pipeline to manage the video library
- Use AWS to Face Recognition, Audio Transcription, Context Detection and Natural Language Processing,
- Managed a database of about 18 Million videos and 6 petabytes. Daily the application records and processing data from 45 different data sources.
- Chief Architect and Investor at the company

Technologies used: C++, C#, BigQuery, OpenCV, Google Cloud, Hadoop, Kafka, Tensorflow.

HPC Brasil, Founder and CTO

2008 - 2020

HPC Brazil specializes in developing custom software for customers in Brazil, Argentina and the United States.

- Create Smart Contract Solutions and Core components for Blockchain
- Solve problems with mobile and web pages that need High Performance
- Works as a freelance developer for several companies in Brazil, USA, Chile, Argentina, Paraguay, Ukraine, India & Australia

Technologies: Python, Open CV, Node.js, Google Cloud, AWS, Heroku, Azure, C#, Spark, C++, Java, PHP, Go, Biztalk, Android, iOS, SQL Server, Oracle and MySQL, AWS Lambda, Haskell, Solidity, Ethereum and Cardano.

Naranja, Technical Leader

02/2018 - 11/2018

Naranja is a customer-oriented company known for being the major credit card issuer in Argentina. For over 25 years, they have been driven by the same objective: making life easier for our customers, merchants and employees.

- Define technical requirements for the applications based on the user's need and cost & restrictions related
- Responsible for the integration requirements between Mobile, Cloud and on-Premise Applications

Technologies: Scrum, Python, Node.js, Java, C#, C++, PHP, Cobol, Angular, PWA, iOS, Android, Oracle OSB, Dynamics CRM, Azure Functions, IBM Cloud, AWS, NetScaler, SQL Server, Oracle.

Twittalking, CTO

2015 - 2016

Twittalking is a startup to generate smart insights for powerful content on Twitter.

- Built a Deep Learning engine to understand the user's community and suggest best content to improve his engagement.

Technologies used: Python, Node.js, Java, C#, C++, AWS, Kinesis, DynamoDB, ElasticCache, ElasticSearch, Elastic Map Reduce.

Flextracker, CEO

2011 - 2016

Flextracker is a platform to get patient's data for the pharmaceutical industry to provide better services to clients.

- Integrate data from Brazilian Health System
- Consolidate Data and help to define new sales strategic
- Generate public dashboard to Health care professionals at Brazil
- Create Machine Learning Models to understand the market

Technologies: C++, C#, Java, Hadoop, Azure, AWS, SQL Server, MongoDB.

Universidade de Sao Paulo, Researcher

2004 - 2010

The University of São Paulo is a public university in the Brazilian state of São Paulo. It is the largest Brazilian public university and the country's most prestigious educational institution, the best university in Ibero-America, and holds a high reputation among world universities, being ranked 100 worldwide in reputation by the Times Higher Education World University Rankings. USP is involved in teaching, research and university extension in all areas of knowledge, offering a broad range of courses.

- Worked at the High-Performance Computing and Pervasive Computing Group
- Active participation in several projects of the group
- Represented the University in scientific meetings and conferences, like the Supercomputing conference in the United States and the ISC in Germany
- Research activities, received several grants from companies like Microsoft, IBM and SUN.
- Participated in research projects sponsored by FINEP, FAPESP and CNPq

Technologies: Python, Node.js, Java, C#, C++, AWS, Azure, Map Reduce, OpenCV, Cell Processor, ZigBee, ARToolKit, Android, Symbian, Matlab.

IBM, System Engineer

2007 - 2008

International Business Machines Corporation (IBM) is an American multinational technology and consulting company headquartered in Armonk, New York, with more than 350,000 employees serving clients in 170 countries.

- System Analyst working for an Account System of Porto Seguro
- Design of the new accounting system, helping in the conception, design and prototype.
- Senior Developer to a new Contract Management Web Site.

Technologies: Microsoft ASP, RUP, Java, J2EE, DB2.

Schaim Engenharia, System Engineer

2006 - 2008

- Developed the kernel of the Car Tracking System
- Developed a solution can handle more than 100,000 messages simultaneous, getting one of the best performances of the market and simple operation.

Technologies: Microsoft ASP, C++, C#, SQL Server, GPS, Google Maps.

TV Cancao Nova, System Engineer

2004 - 2005

TV Cancao Nova is the biggest place to broadcast events from the catholic church, with more than 250,000 people a day.

- Architect and develop the new WEB TV and a complete solution to manage IPTV library.

- Produced content for Web & TV.

Technologies: PHP, C++, C#, SQL Server, Windows Media, Windows Encoder

CSIT – Microsoft, System Engineer

2002 - 2004

- Acted as a Senior Consultant and team leader on several projects for companies like: TIM, NOKIA, Bank Boston, IBM and Microsoft
- Lead a complex project with several people involved with a great pressure and stress on the team. After several hours of hard work, we can overcome the problems and deliver a new solution that is the first Mobile Bank in the world. This solution was a reference and some technologies developed by our team are used now in most of the bank applications.

Technologies used: C++, C#, Java, SQL Server, Biztalk, Symbian, SAP, J2ME.

Unibanco, System Engineer

2001 - 2002

Unibanco S.A. was a Brazilian bank which operated from 1924 to 2009, when it was merged into Banco Itaú.

- Restructured the complete ETL (Extract Transform Load) system of the Data Mining of the Credit area. The original process took about 13 hours to complete and I could reduce this to 45 minutes
- Helped the Business Intelligence at the Management Information Systems area

Technologies used: Visual Basic, Access, Cristal Reports, SQL Server & Cobol.