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Top Skills

LLM
LLM Evaluation
Desenvolvimento Android

Languages

Portuguese (Native or Bilingual)
English (Full Professional)

Certifications

IBM Cloudant Indexes and Queries
IBM Cloud Garage Test-Driven
Development (TDD)
IBM Agile Explorer
IBM Cloudant Developer Essentials
Patent Issuance

Honors-Awards

Bravo!
Bravo!

Publications

AI-enabled, mobile soil pH
classification with colorimetric paper
sensors for sustainable agriculture

Towards an Educator-Centered
Digital Teaching Platform: the
Ground Conditions for a Data-driven
Approach

Efficient multi-prompt evaluation of
LLMs

Recognition and Recommendation of
Parking Places

CARROT: A Cost-Aware Rate
Optimal Router

Állysson Oliveira

Tech Lead Generative & Agentic AI Engineer | IBM Research
Campinas, São Paulo, Brazil

Summary

Experienced technical leader and coordinator on software projects.

Experience

IBM
10 years 9 months

Tech Lead Generative & Agentic AI Engineer
February 2025 - Present (1 year 9 months)

Prevented a delayed release of WXA4z agents on Spyre (IBM's AIU), protecting revenue tied to ~70% of new System Z sales. Solved major model constraints based on Spyre requirements by improving Granite-based agents from sub-20% accuracy to ~90% of Llama performance within weeks, enabling a viable on-time release.

Boosted accuracy from 50% to 90% to enable tech preview and the first IBM Power GA with Spyre. Delivered prompt optimisations leading to significant accuracy improvement, and consequently upskilled IBM power team to complete tech preview AI solutions. This paved the way for Oct 2025 GA, and Openshift AI on Power with Spyre for 1Q 2026.

Reduced IBM Consulting Advantage's reliance on large third-party models by consolidating fragmented assistants onto Granite 3 8B. Onboarded Granite to the ICA platform and migrated top workloads, driving Granite adoption from 0% (Sep 2024) to 47% (Jul 2025).

Prevented Verizon from canceling its GenAI contracts on Watsonx.AI platform and directly contributed to ~\$3M in new revenue. Addressed urgent legal constraints tied to a Meta-related EU issue and improved Granite performance by 50%+, making it the only model Verizon could legally and technically approve.

Patents

Access control using multi-authentication factors

method and system for adjusting digital content composition rules based on physiological and unintended signals

Sistema de gerenciamento e método de identificação de animais

method and system for reporting parking space availability

Access control using multi-authentication factors

Created a tool that generates common API commands for Granite models, informed by recurring usage and debugging patterns observed across real customer use cases.

Provide executive-level support through detailed progress reports, insights on use case analysis, and clear leadership updates, consistently driving alignment, visibility, and successful engagement outcomes.

Senior Research Software Engineer

July 2019 - January 2025 (5 years 7 months)

São Paulo, Brazil

Built a messaging queue-based platform with high scalability to perform LLM evaluation based on Open LLM Leaderboard datasets that served as the input for the research and development of a highly efficient and cost-aware LLM router (see CARROT paper). Over a million models' inferences were automatically run, generating more than 10GB of data. The result of this work will be released as a feature of the WatsonX.ai platform, as well as used by the IBM Consulting team in the IBM Gateway offering.

Worked on the creation of IBM Data Pile (formerly IBM Blue Pile), which is the database used to train Granite models. The work consisted of data gathering (crawler), improving the established workflow to enable multiprocessing, and reducing execution time.

Lead technical developer of a platform for feedback analysis based on IBM's Key Point Summarization technology. The platform was showcased for IBM's clients and major Brazilian retailers.

Business Technology Development Analyst

February 2016 - July 2019 (3 years 6 months)

Greater São Paulo Area

Working within the IBM research team as a solution architect for clients and internal solutions. Developing PoCs based on IBM Brazil Research Lab assets to showcase IBM innovation. Led a product development for an internal IBM team that led to a US\$260K+ deal, managing execution and backlog prioritization. mentorship of software development interns.

Samsung Brasil

Research and Development Senior Analyst

September 2013 - February 2016 (2 years 6 months)

Greater Campinas

Technical player on research team responsible for support Samsung's Digital Education team on development of digital teaching platform and research contribution. Leading 3rd party development teams on prototyping solutions. Technical research for patents and papers writing.

Motorola Mobility

7 years 11 months

Senior Software Specialist

September 2007 - September 2012 (5 years 1 month)

SME of Motorola's Social Networking Android component (Motorola's Cloud Service - integration of social providers such as Facebook, Twitter, LastFM, etc.). UI and functional improvements on application and also bug fixes. Support to several product teams world wide such as China and US to achieve carriers technical requirements.

SME of Rich Communication Suite Enhanced (RCSe) Android Instant Messaging client. Designed and developed IM client based on Android working together with Motorola's China team that provided RCSe SIP based stack for Orange France.

Software development of Instant Messaging client based on OMA's Wireless Village protocol version 1.2 and Android platform. Coordination of IM client brand certification (bug fixes and new features) for Yahoo!, AOL and Windows Live Messenger providers to meet technical acceptance of US carriers.

Social Networking development and bug fix. Worked on Verizon Wireless headquarter to support E-Mail team to solve an issue with corporate e-mail client and MS Exchange Server on Droid Pro.

Coordinating branding certification of several Motorola's devices based on Android. Support for Text Messaging team.

Support for Text Messaging team and developing new features for WVIM Client.

Developing Motorola's WVIM Client for Symbian. Supporting Branding team to achieve IM Providers (Yahoo!, AOL and WLM) requirements.

Software Specialist

November 2004 - September 2007 (2 years 11 months)

Device layer developer for P2K devices implementing WVIM v1.2 communication stack. Responsible for stack compliance with WVIM gateways such as Followap, OZ and Colibria used by several carriers world wide such as AT&T, TMO and Orange. Migration of stack code from C to C++.

Focal point of Motorola's partner Openwave Magic4 (provider of protocol stack for WVIM v1.2 client). Responsible for coordinating bug fixes and improvements.

Developed CMCC (China's Carrier) brand for Motorola's P2K device.

Support for Text Messaging and Instant Messaging teams on feature development and bug fixes.

UNIESP

Graduated Teacher

April 2008 - June 2009 (1 year 3 months)

Hortolândia

Teach computer architecture, Logic Lab and Computer Science Lab disciplines.

CPqD

System Analyst

July 2000 - November 2004 (4 years 5 months)

Brazil

Developed CPqD Workforce system for tracking repair requests from costumers of Telefonica Brazil and Brasil Telecom. C based system on Sun Solaris platform and using Oracle as DBMS.

Worked on CPqD Lince. System for custom reports based on carrier database for repair requests (CPqD Workforce).

Web based custom reports created using PERL.

Education

Universidade de Fortaleza

Bachelor's degree, Computer Systems Analysis · (1995 - 2000)