

# Lucas Lima Sr. Innovation Solutions Architect

## About Me

Sr. Solutions Architect and Innovation Technologist with a passion for Web 3 and Machine Learning (incl. Generative AI). I have a wide range of experience working with corporate innovation applying the "[Lean Startup](#)" framework, from designing and developing innovative solutions to managing and deploying them. I specialize in leveraging emerging technologies to solve complex problems and have a track record of successful driving results using hypothesis-driven experimentation. My goal is to help drive transformative change to make a positive impact on the lives of people through innovative technologies.

## Contact Information

Location: St. Petersburg, FL - USA

## Skills & Expertise

## Professional Experience

### Sr. Solutions Architect at Global Digital Innovation – Kimberly Clark

2021–Current

#### 1- Generative AI Platform (Global)

Principal Solution Architect of the first Generative AI Platform for digital applications at Kimberly-Clark. Currently in use for Supply Chain and Marketing (rolling out to other functions).

**Solution:** A Global Generative AI Platform in a private network that utilizes foundational models to generate new content, augmented generation (RAG) over corporate data, automate processes, and enhance productivity across various business functions to streamline operations, foster innovation, and provide competitive advantages in the marketplace when connected to various solutions.

**Tech Stack:** *OpenAI APIs / Kubernetes / Langchain / Azure AI Search / Cosmos DB / React JS.*

#### 2- Intimus NFT art festival (Latin America)

Idea co-owner and hands-on solution architect of the first marketing campaign utilizing NFTs for community building and a strategy to build digital communities. [festival-intimus.art](#).

**Solution:** (1) High-fidelity prototype for Customer Validation (Desirability - [IDEO](#)) using a Next JS front-end with Flowbit and EVM Smart Contract managed through [ThirdWeb SDK](#); (2) MVP solution developed in collaboration with [Women Found Labs](#).

**Tech Stack:** *ThirdWeb / Wagmi / Connect Kit / Alchemy / IPFS / NextJS / Azure.*

#### 3- Computer Vision Model and APIs (Global)

Solution architect and ML engineer to train a transformers model for classification of poop color, served through APIs and a front-end pilot application.

**Solution:** This initiative has 3 distinct architectures that have been developed to test different hypothesis and provide solutions with specific needs. First version was developed in-house using a React Front-end, Azure serverless functions behind a non-relational DB. Second version was built by a partner with computer vision expertise, which used images from our R&D model and also provisioned a newer version of the front-end. Third version mocks up the machine learning model using a cut costs and reduce maintenance needs, providing very similar results. A in-house transformers model has also been trained from real consumers from the previous versions with very positive results.

#### 4- “Proof of Achievement” Non-fungible Awards (Global)

Idea owner, solution architect, solidity engineer and product owner of an internal experiment to “de-risk” and show value to businesses and Global IT leadership. Award NFTs in 2022: “CIO Awards”, “R&E Technical Excellence” and “Global Digital [OpenSea](#).”

**Solution:** EVM Smart Contract Factory deployed on Polygon (L2) to manage Smart Contracts (awards) with ERC1155 tokens.

**Tech stack:** *Hardhat / Alchemy / Piñata / Wallet Connect / React / Storybook / Web3.js / GraphQL / Azure.*

#### 5- “Point of View” (POV) on Metaverse (Global)

I discuss the potential of decentralized metaverse and blockchain networks, as well as the possibilities created by decentralized and non-fungible tokens. The POV article explores how these emerging technologies can be used to innovate and create new applications. By leveraging the reduced cost of verification and networking of non-fungible tokens and decentralized applications, we can create new revenue sources and better engage with consumers.

**Solution:** A point of view article presented to the CIO organization and the Global Digital Technologies Solutions organization of the concept Metaverse, diving into some of its building blocks and how the maturity of decentralized blockchain networks led to an alternative proposal of what the Metaverse will be. It also looks at the functional role of crypto and non/semi-fungible tokens.

### Solutions Architect | Innov at SVIO – Global Nestle Innovation | Marketing, Sales

2018–2021

#### Refill+ Nestle Waters Smart Water Dispenser (Global)

Principal architect leading the redesigning of the global Nestle Waters Refill+ smart water dispenser for first roll out in various markets, testing assumptions and test initial hypothesis.

## Nationalities and Languages

Brazilian and Portuguese Nationalities

- Portuguese (Native)
- English (Fluent)
- Spanish (Fluent)
- French (In progress)

## Education

### MIT School of Management

Executive Education in Management and Leadership

### University of Sao Paulo

BSc, Computer Information Systems

## Certificates

- **Blockchain Technologies: Business Innovation and Application** (MIT SLOAN - Tech & Operations)
- **Machine Learning in Business** (MIT SLOAN - Mgmt & Leadership)
- **Artificial Intelligence: Implications for Business Strategy** (MIT SLOAN - Mgmt & Leadership)
- **Questions Are the Answer: Creative Problem Solving, Innovation, and Change** (MIT SLOAN - Mgmt & Leadership)
- **Managing Machine Learning Projects** (Coursera - Google Cloud)
- **AWS Solutions Architect Associate** (AWS - YEYZSPM-CPER1Q05F)

**Solution:** IoT water dispenser activated with a Mobile App and/or NFC bottles, integrated with AWS IoT Hub for headless eCommerce backend to handle orders, Drupal front-end and SAP asset management workflows. See

### “Blue Ears” Rapid Experiment (Global)

Idea-owner, solution architect and project manager of the rapid experiment using Industrial IoT Microphone sound of food processing equipment in factories in partnership with [OneWatt](#).

**Solution:** Industrial IoT Microphone "E.A.R.S" integrated with a SENS-AI neural stack AI and APIs for corporate making.

### "NEO" Rapid Experiment (Global)

Idea-owner, solution architect and project manager of the rapid experiment using an open source Mobile App help the crowdsourcing of images of Nestle coffee machines to compose a dataset for training a computer vision by our support chatbots.

**Solution:** Mobile app developed using Flutter (outsourced software developer) interacting with GCP APIs for image training using AutoML.

## IT Project Manager at Nestle IT North America

📅 2014–2018

Technical project manager, part of the Mobile Field Sales team, responsible for managing the global roll out of Sales teams in North America as part of the Sales Force Automation program in North America.

- Total Deployments: 7 Projects
- Users Affected: 6000+ Sales Reps
- People Managed: 15+

## Volunteer Project/Product manager at Brasa Design

📅 2014–2016

My expertise in project management, combined with my knowledge of digital technology and innovation, has allowed me to serve as Project Manager and Product Manager for Brasa Design, a Web 2 creative design agency specialized in working with non-profitable organizations), providing consultancy and guidance to help them reach their goals. [See their projects](#)

## 🎓 Achievements

### Intangible Cultural Heritage Inventorying using Blockchain Networks

🏛️ *MIT SLOAN Primer*

Cultural historical records lay the foundations for better understanding and dialogue between generations and have extreme importance to practitioners, researchers, and our society in general to find ways to document the present heritage, ensuring the survival of its elements and traditions.

[Article Link](#)

Intangible Cultural Heritage Inventorying using Blockchain Networks © 2023 by Lucas Maia Souza Lima is licensed under CC BY 4.0 International

### VIP Roundtable - Web 3, Metaverse & NFTs for Brands

🏛️ *Landmark Ventures + House of First*

Participant of a roundtable discussing the how brands are leveraging Web 3, NFTs and the Metaverse concept. Participants discussed topics such as the potential of the metaverse for brands, the use of blockchain-based non-fungible tokens (NFTs) of Web 3 for brands, and the potential of virtual stores, challenges associated with these technologies and how to create new models and experiences.

## CapoeiraViva.net

🏛️ *CapoeiraViva.net*

An audiovisual historical archive of capoeira rodas and events around São Paulo, Brazil. The first and largest of its kind in the world. [CapoeiraViva.net](#)

## **Project Management Professional**


(PMI – 21117394)

- **SAP Sales and Distribution Consultant** (SAP – 0009476613)

## ★ **Tech Skills**

- **Front-End:** NextJS / Tailwind CSS
- **Back-end:** Node JS / Python / Hardhat / Solidity
- **DevOps:** YML Pipelines / Azure DevOps / Github Actions / Vercel
- **Cloud Architecture:** Azure / AWS / Terraform / Docker
- **Machine Learning:** RAG / Foundational Models / AutoML / Tensorflow / Keras
- **Dev Environment:** Unix (preferable) / Windows

## **Historia e Quadrinhos Podcast**

 *H&Q Podcast*

Launch of the project "[Historia e Quadrinhos Podcast](#)" with a group of historian teacher friends tht developed history using comics in Brazil. I was responsible for the Website and Social Media.

## **WordCamp St. Louis Speaker**

 *Wordpress.org*

Speaker at WordCamp St. Louis 2015 and 2016 on [Managing WordPress projects](#).

## **Hobbies & Interests**

Thank you very much for reading till this point! Please, reach out for a quick chat, I'm always willing to exchange