
Lucas Katayama

Full Stack Developer and Software Architect

Brazil, SP, São Paulo

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PROFILE

I am a self-taught, quick learner and highly motivated Full Stack Developer with 8 years of experience developing, designing and managing web applications in a startup environment.

EXPERIENCE

Mercado Bitcoin, Brazil

[Mercado Bitcoin](#) is the gateway to the financial market of the future. Mercado Bitcoin has democratized investment in alternative assets, offering different solutions for companies and end consumers.

Sr. Developer and Software Architect

July 2023 - Now

- Designed and developed a new event driven architecture to work as an order management system on top of Kafka ensuring system reliability.
- Developed a Golang framework to support development of new services and help the adoption of the new architecture using Uber FX.
- Sharing knowledge and supporting other teams to adopt an event driven architecture by applying and developing new microservices for other products.

Sr. FullStack Developer

August 2021 - July 2023

- Instrumented applications to integrate NewRelic technologies by building a Golang library to integrate it, increasing microservices observability
- Redesigned the REST API (<https://api.mercadobitcoin.net/api/v4/docs>)
- Introduced OAuth2 technologies for 3rd party integration with Mercado Bitcoin API using Open Source technologies
- Implemented a WebSocket server providing real time public data for traders (<https://ws.mercadobitcoin.net/docs>) with Golang and Nats
- Redesigned an arbitration platform for an internal client with VueJS and Golang.
- Developed an internal Ledger to handle multi assets user balances.

Mercado Bitcoin, Brazil

[Mercado Bitcoin](#) is the biggest Brazilian cryptocurrency exchange and provides a platform for crypto trading and other alternative investments.

Full Stack Developer

September 2019 - July 2021

- Helping build the largest Latin America cryptocurrency exchange.
- Started to learn another language: Golang.
- Developed high performance microservices using Golang, SQL databases (PostgreSQL and MySQL), Kubernetes and AWS.
- Redesigning a service to improve performance and reduce costs.
- Designed and developed a balance control service.
- Improved code instrumentation with NewRelic and Golang.
- Redesigning a price analysis platform for an internal team.
- Introduced VueJS by developing a backoffice platform, teaching and sharing framework knowledge.

Zup, Brazil

[Zup](#) is a Brazilian company offering products and services to grow your company exponentially.

Back End Developer

February 2019 - August 2019

- Hired to work on a mobile marketplace project, I developed microservices to process and manage the purchase flow.
- Developed microservices using Java with Spring framework, messaging with RabbitMQ and database with MongoDB.
- Introduced new technologies like Kotlin and GraphQL.
- Started to help the infrastructure team to create a DevOps culture inside Zup, redesigning the delivery process and introducing Kubernetes.

Siteware, Brazil

Strategy Manager was acquired by [Siteware](#), which also provides solutions and tools for enterprise management.

Full Stack Developer

March 2018 - February- 2019

- Continued to develop new features and maintain the Valorae platform from Strategy Manager.
- Participate in changing the development process by applying agile methodologies (Kanban).
- Started redesigning the product architecture to deliver a more scalable platform using AWS Elastic Container Service and Docker containers.
- Responsible for deploying and installing the platform on client infrastructure.

Strategy Manager, Brazil

[Strategy Manager](#) is a startup engaged in company development, providing software solutions for strategic management

Full Stack Developer

January 2017 - March 2018

- Started a CI/CD process, using JetBrains technologies (e.g Upsource, Youtrack, TeamCity), ensuring the build of new versions and delivering them to all on premise clients.
- Built a web application to coordinate creation of isolated environments helping the client support team, using MongoDB, React, ExpressJS, Redis and Docker.
- I was also responsible for migrating the legacy code to VueJS, building and evolving the platform based on AngularJS 1 to a VueJS while developing new features.

CPF na Nota, Brazil

[CPF na Nota](#) is a mobile application for credit tracking from the government project

Full Stack Developer

May 2016 - August 2016

- Developed an Android application to users track available credit from government tax projects.
- Built a Facebook application to also do the same track.
- Implemented a MEAN (MongoDB, ExpressJS, AngularJS and NodeJS) stack BI system for extracting and analyzing millions of consumption entries.
- Designed a process to build instances of the BI system using Docker.

OKNOK, Brazil

[OKNOK](#) is a startup that helps media agencies to manage, validate and deliver digital marketing ads.

Full Stack Developer

January 2016 - May 2016

- Made a full project redesign, changing it from JavaEE system to a MEAN (MongoDB, ExpressJS, AngularJS and NodeJS) stack system.
- Learned quickly the JavaScript world and rewrote the entire project, adapting and improving the development process.

Developer and Technical Manager

November 2013 - January 2016

- Designed and developed a product with solutions for the digital advertising and marketing market.
- Managed and led a small back office team.
- Implemented a JavaEE web system to process and validate advertising ads.

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- Developed a tool to support management, production and delivery of digital advertising ads with Spring and MongoDB.
 - Designed and built a system to store digital advertising ad specifications.

SOFIST, Brazil

[Sofist](#) is a startup specialized in software testing and quality assurance

Software Engineer

August 2012 - November 2013

- Responsible for developing and designing solutions for an external client.
- Implemented and designed an ETL system with Shell Script and Linux to automate capture and processing of daily documents provided by the government and deploying it with Amazon AWS.
- Developed tools with Java EE and MongoDB to view, edit and classify the documents.

OTHER EXPERIENCES

Freelancer

Android Push Notification

November 2016

- Added push notification feature to an existing Android application.
- Changed styles from a notification view on the app.

October 2016

- Implemented features in a React application similar to Netflix.

Open Source Projects

Contributed to open source projects like Yarn, n and react-fontawesome.

Personal Projects

IOT

October 2022 - July 2023

- Developed a Tamagochi like using Arduino/C++ and Raspberry RP2040
- Build a home Air Quality Sensor with Arduino modules retrieving home air quality data, reporting into Home Assistant and integrating with Apple Home.

EDUCATION

State University of Campinas - UNICAMP - Brazil

Bachelor of Computer Engineering

January 2007 - July 2012