Contact

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www.linkedin.com/in/ygorlemos
(LinkedIn)
ygor.ninja (Blog)
ygor.dev (Personal)

Top Skills

Kotlin

FastAPI

Docker

Languages

Portuguese (Native or Bilingual)

English (Native or Bilingual)

Spanish (Limited Working)

Ygor Lemos

Co-Founder, ex-CTO @ PiniOn || Systems Architect || Senior
Software Engineer || Python♥#
Ribeirão Preto, São Paulo, Brazil

Summary

Developed, architected and maintained the largest crowdsourcing
mobile app in Latin America for 12 years as a hands-on CTO, from
the mobile app to the very infrastructure running it to millions of
Brazilian users.

Mobile, Backend and Web Applications Engineer / Systems Architect
with experience on Mission Critical Telecom Systems using Voice
Over IP (VoIP) protocols (SIP, IAX, H.323, MGCP, SCCP, SS7, ...),
integration and development of hybrid systems both with TDM
and VoIP protocols using Linux and Asterisk with Dynamic Web
Interfaces for Administration developed using Python, C, C++ and
Javascript (AJAX & WebSockets) Technologies.

Vast knowledge on user interfaces and user experience design for
web application environments mobile apps, web server load balance,
high availability and distributed cloud infrastructure. Development of
core communication software on python, c, c++, rust and go.

Experience on Advanced Web Application Patterns, CSS, Javascript,
Node.js and NoSQL Databases like MongoDB, CouchDB, ScyllaDB,
Cassandra and Redis.

20+ years of DevOps acting as a System Administration for Multi-
Server Mission Critical Datacenter Management and Real-time
Monitoring Software Development on Linux, UNIX and BSD
Platforms both for on-premises as for cloud servers architectures.

Deeply involved with Mobile UI / UX and Mobile Applications
Engineering for both Android and iOS (iPhone / iPad), on
Smartphones and Tablets, specially using Appcelerator Titanium.
Nominated one of the Appcelerator's Titanium Titans due to early
adoption and great experience on the platform. Now rewriting
everything in SwiftUI and Kotlin (Jetpack Compose)

Specializing in Machine Learning, Artificial Neural Networks, Large Language Models, Image Recognition and AI in general with special emphasis on automatic machine learning algorithm discovery, hyperparameter discovery, calibration and optimization and recurrent learning. Focusing on deployment of distributed inferencing and multi-modal integration.

Currently Learning and Experimenting as a hobbyist with IoT, Automation, Robotics, Microcontrollers and FPGA Development.

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Experience

PiniOn
CTO & Co-founder & Senior Software Engineer
October 2012 - March 2024 (11 years 6 months)
São Paulo, Brazil

* Developed the first version of the PiniOn Mobile App for iOS using Appcelerator Titanium + the Backend and the Admin Platform using Python3, MongoDB, Twitter Bootstrap and Amazon AWS Cloud in 3 months.

* After the bootstrap period we started hiring Mobile Developers and Frontend developers for evolving the app and the admin platform while my main focus was improving the Python+MongoDB JSON Backend API, R&D of New Features, Wireframing and Prototyping of future features and Managing the in-house Development Teams.

* 100% of PiniOn Software Development was made in-house.

* My mission is to keep the product (app, backend, infrastructure) always evolving based not only on internal strategy but also on continuous customer and end-user feedback. Also keep developing the backend, managing the Mobile, Backend and Frontend development teams and coding together with them.

*Circa 2015 we migrated from AWS to GCP due to costs and a new architecture that worked faster on GCP

* Circa 2022 we migrated the apps from Titanium to native Swift+SwiftJS and Kotlin+Jetpack Compose for leveraging more features, specially AI on the Edge.

AirportChatter
CTO & Co-founder
August 2012 - March 2013 (8 months)

* Developed the very first version of the App and Backend together with an awesome team in 2 months (we got featured on Techcrunch :)).

ezVoice Telecom
Chief Software Architect & Senior Software Engineer
January 2010 - May 2012 (2 years 5 months)
Ribeirão Preto, Brazil / São Paulo, Brazil / Miami, USA

* Back to my position of Systems Architect at ezVoice Telecom, currently working on the architecture, design and development of advanced telecommunications systems, Linux, Asterisk, PHP, C, C++, Python, Javascript, AJAX, Firewalls, Networking, Telephony Hardware and Protocols, Call center systems, etc...

Currently developing an internal Python Web Framework called Serendipity to power all Web Applications of ezVoice Telecom, inspired by Django, Sinatra and Ruby On Rails Features, focused on performance and simplicity using as key elements Tenjin Template Engine, SQLAlchemy and CherryPy along with native Python3 code introspection magic.

Digivox Telecom
Chief Systems Architect & Senior Software Engineer
April 2009 - January 2010 (10 months)

*Currently Involved in Latin America's biggest IVR (Interactive Voice Response) System Project for the biggest Bank of Brazil and Latin America.

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*Develop & Design Asterisk Based Solutions to Big Financial Enterprises, Callcenter and Enterprise Customers.
* Develop and Design AJAX Interactive User Interfaces for Web Browsers and Mobile Devices using latest Web2.0 Technologies (AJAX/DOM/HTML5/ Comet).

* Technologies: Asterisk, Linux, Mac, PHP, MySQL, Python, Ruby, C, C++, Shell Script, Javascript and AJAX, SVN.

ezVoice Telecom
Chief Systems Architect & Senior Software Engineer
September 2006 - March 2009 (2 years 7 months)

* Develop & Design Asterisk Based Solutions to Big Financial Enterprises, Callcenter and Enterprise Customers and Mission Critical Financing Applications.
* Technologies: Asterisk, Linux, PHP, MySQL, Python, Ruby, Perl, C, C++, Shell Script, Javascript and AJAX, SVN.

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Education

Centro Universitário Barão de Mauá
Bachelor, Information Systems with emphasis on Computer Networks and Internet · (2005 - 2006)

UNICOC - Faculdades COC
Bachelor, Computer Sciences · (2003 - 2005)