

# RICARDO ARREDONDO

📍 México  
✉️ ricardo.richo@gmail.com  
🐙 github.com/ricardoricho

🌐 ricardo-arredondo  
🐦 @\_richo

## Software Developer

### EDUCATION

2003 – 2008 **Computer Science** **Bachelors Degree** (pending title)  
Universidad Nacional Autónoma de Mexico (UNAM)

### EXPERIENCE

April 2023 **Briqmx** **Principal Software Engineer**  
April 2024  
**About the company.** Crowfounding for real state. After 8 years, more than 500 projects, and more than 150 thousand million pesos.  
**Activities.**  
I returned to the company to continue the development of new features that change how people participate in the mexican (and some U.S.A.) real state market.  
**Technologies.**  
Ruby on Rails / PostgreSQL / StimulusJs / Tachyons / Redis

April 2022 **Altimetrik México** **Principal Software Engineer**  
July 2022  
**About the company.** Altimetrik is a company from India that opened offices in Guadalajara, Mexico to be near the U.S. clients and hires remotely in all Mexico.  
**Activities.**  
Interview candidates to build a team of: 2 Staff engineers, 2 senior engineers and 4 Junior members. Prepare learning material from Udemy courses, and translate from Java, Python or other programming language to Ruby.  
**Technologies.**  
Ruby

February 2017 **Jetty** **Software Developer**  
February 2020  
**About the company.** Mexico City is one of the most traffic-congested cities in the world and public transport is not enough, in rush hours people could spend more than 6 hours per day to get to the office and home.  
**Jetty** developed technology that helps solve the problem that affects millions of people. By getting partners with transport carriers, helped them hire qualified drivers and focus on the most important part of the business, the users, letting them have a nice, secure, and comfortable trip.  
**Activities.**  
Building the Admin site where an admin can manage, transport carriers, their routes, trips, users, drivers, vehicles, tickets and many other features like the ability to track each trip in real-time using data provided by the driver app.  
Designing and building of the API for the user apps, Android and iOS. With this API, users get authenticated using email and password or can register using Facebook, can search for trips, buy tickets with credit or debit card, get notifications when the trip starts and when the vehicle arrives at the corresponding boarding stop. Users also have balance so with any trip cancellation can have a refund or if the user canceled a ticket then can have a percentage refund.  
Finally the driver app was using this API for authentication and to retrieve information about their corresponding trips, stops, and which user was boarding or descending in a given stop.  
**Technologies.**  
RubyOnRails / PostgreSQL / Heroku / Redis / Firebase / Intercom API / Facebook API / Sendgrid API / Openpay API / Google Maps API / Twilio API

August 2014  
February 2017

## Innku

Software Developer

### About the company.

Innku helps companies to adopt or implement online business tools. For several years (since 2008) it has become partners with people to help them create or run companies based on technology.

### Technologies.

I had the opportunity to work in several projects for different startups, all of these projects have a basic backend with a few third API integrations and some changes in front end as the project demand:

RubyOnRails / Heroku / PostgreSQL / EmberJS / Google Maps API / Redis / BackboneJs / Amazon S3 / Openpay API

### Projects.

- **Jetty 2017.** Jetty started as a Innku project.
- **Lunchbreak 2016 – 2018.**  
Deliver meals to offices in lunch hours was the business of Lunchbreak.  
Building a site for the customers were able to see the weekly menu and for each day choose from a pool of 3 soups or salads and 3 main dishes to complete a meal. They can buy meals paying with credit or debit card and do any modification to the already agreed meal until the *closing time* (which was 9 pm) of the day previous to the meal delivery. After the meal was delivered the customer rate and comment the service to give feedback as soon as possible.  
The admin site was in the same Ruby application with some features like logs and statistics of customers (as a single user or a company), sales, dishes and rates.
- **Briq 2015.**  
Crowdfunding for real estate is what Briq is about. With good interest rates and a low minimal amount to invest Briq is changing the real estate and the financial environment for many people.

Being part of the team that began building the site. Some administration features to organize the investment projects in different investment campaigns each one with different configurations about payment days, interest rates, type of interest and so on.

The users features include being able to see their investment portfolio with some charts using *Google Charts*, users also can sign and download their contracts which is a *pdf* that gets modified, at the moment of signature, adding a seal with a timestamp on the pdf and saved as a unique file.

May 2014  
July 2014

## SYESoftware

Software Developer

### About the company.

SYESoftware has offices in Argentina, Mexico and Colombia, offers several services for business improvement, from adapting some tools to customize software development.

### Project.

"Contract Share" was made for sharing legal contracts between lawyers teams.

The system was capable of receiving a file, in a .doc format, converted it into an HTML format using Open Office libraries, then parsed it by splitting it in paragraphs (<p> tags) and store it on a PostgreSQL database.

Most of the features that I developed were in the front-end application. Based on "Summer Note" editor, add some capabilities for mark changes in the document with tags <strike> for the deleted text and <u> for the new ones. Before saving if the changes add or remove complete paragraphs the text was divided again and manage the new paragraphs order.

### Technologies.

RubyOnRails / EmberJS / OpenOffice / Summer Note

November 2013  
April 2014

## Quarksoft

Java Senior Developer

Doing several activities involving planning, documentation and Develop components of a generic Case Manager. Working under **PSP**(Personal Software Process) and **TSP** (Team Software Process) methodologies.

### Technologies

AngularJS / Java / Spring / Jasig-CAS / CassandraDB

- July 2013 **Adesis Netlife** **Java Developer**  
 October 2013 Adesis Netlife is a Spanish company whose client was a bank and they started to manage the Mexican web site for the insurance division.  
 Developer of some services in the back-end for the private area of the insurance clients. Working with Java I was able to learn about different layers in the architecture stack.  
**Technologies.**  
 Tools Java / Spring MVC / Spring Webflow / MyBatis / Oracle / XML / JSON
- March 2012 **Freelancer** **Freelancer**  
 July 2013 As a freelancer I was capable of research and test new technologies, new programming languages and frameworks. I had a few clients with tiny but stable applications.  
**Technologies**  
 Tools Ruby / Ruby on Rails / Python / JavaScript / CoffeeScript / Backbone / Angular, Google Apps Engine / PHP / Silex
- June 2008 **Universidad Nacional Autónoma de México** **Software Developer**  
 March 2012 SIBA was a "mega-project" from the University in which each institute was going to provide web services with fresh information from several researches starting with biological and geographic collections provided by the Institute of Biology and Institute of Geography.  
 The project didn't accomplished the expected results with all institutes but the main team of the Institute of Biology is now working in the open data site of the university (<https://datosabiertos.unam.mx/>)

### **Instituto de Ciencias del Mar y Limnología** June 2008 – October 2009

UNINMAR was the name of the unit of the Institute of Marine Sciences and Limnology. With very little budget and only a web designer and me as a web developer and been part of SIBA project I spend most of the time helping UNIBIO's team. They have a *JavaEE* application, using *EJB* and *JSFaces* running on a *Glassfish* server and uses a *Postgresql* database that was previously migrated from a *Access DB* that was provided from a windows-only program that biology researches used to digitalize their collections.

I helped UNIBIO staff to develop a little framework that allow to exposed parts of the schema information of databases through *REST* web services that response *JSON*. Later with distinct *JEE* application, handle user-authentication through servers and serves a single page app, only using *JQuery* that consumes the *API*. With this framework the idea was to deliver a customize application for each collection of the different institutes.

After setting our own server, using *Gentoo Linux* with an *Apache Web Server* and the same *Glassfish* configuration, we were able to exposed our web page with information of the project and public the first collection, Echinoderm.

### **Instituto de Biología.** October 2009 – August 2010

The Institute of Biology continue the SIBA project and I joined the team. We also accept external projects, like one involved the "real time" tracking of fishing boats in the Gulf of California. We received an *JSON-Array* with the position of each boat and stored it on a *PostGIS* database from where then all the clients read through an *API*, we tested using *Google Maps* but the client decided to go with a *Open Layers* solution.

### **Centro de Ciencias de la Complejidad (C3).** September 2010 – March 2012

The University (UNAM) created the Complexity sScience Center (C3) to deal with the complex challenges of the country, several people from schools, faculties and research centers from several Universities are working together solving all kind of problems. I was involved in one project dealing with *chagas* disease.

There were several institutes looking for different factors involved in the disease. We developed an attempt to be a **Research Platform**. The first version was a plain JEE Sever that received csv files and store the data in a PostgreSQL table named after the file, then the researcher was needed to tag the relevant columns to perform a data analysis.

The next version was written using Ruby on Rails, the same PostgreSQL database for navigation and basic system information, *CouchDB* as a file oriented database where all the data of the csv files were stored, and using map-reduce operations, written in *Erlang*, were able to deliver basic statistics. One data analysis was knowing the probability that the diverse elements of the *chagas disease analysis* bring to the probability of certain region of the country being affected.

This second version also run virtualize using *VirtualBox*, with *Vagrant* and some recipes from *Chef*. We had one machine for the databases (PostgreSQL and CouchDB), one with the RoR application and the last machine had the workers written in Ruby and managed by a *Redis* database handle with Resque.

## SKILLS

- Ruby
- HTML
- PostgreSQL
- Gentoo Linux
- Ruby on Rails
- CSS
- MongoDB
- Intercom API
- Heroku
- Backbone.js
- CouchDB
- Facebook API
- Java
- Angular.js
- Redis
- SendGrid API
- OpenOffice
- Ember.js
- Firebase
- Openpay API
- Python
- jQuery
- Amazon S3
- Google Maps API
- Racket
- AJAX
- Android SDK
- Twilio API
- Scheme
- Summernote
- Objective-C
- Scrum
- Haskell
- CoffeeScript
- PhoneGap
- Git
- JavaScript
- MySQL
- Web Services
- Latex

## LANGUAGES

**Spanish** – native  
**English** – fluent  
**German** – beginner

## HOBBIES

Play bass guitar.  
Configure Emacs.