FRANCISCO "BOBBY" SOTO

I SOLVE MORE PROBLEMS THAN I CREATE.

ABOUT

I am a dad, write code, use emacs, think about startup ideas, build them, brew and drink beer, lift weights, play guitar, read a lot and own a bar.

I WORK EXPERIENCE



CareZone

carezone July 2015 - December 2018

Sr. Software Engineer

I maintained and developed **backend** systems all throughout Carezone. Both user facing (the api server for our mobile applications) and multiple internal systems.

As growth increases I helped to **optimize** our current systems, from **SQL** queries, to **efficient memory consumption** to efficient **algorithms and data structures** to keep up with current (and future) demand.



CEO / Cofounder / Backend Engineer

We built Chopeo, a **multi-tenant**, inexpensive and easy to use eCommerce platform with the goal of empowering microbusinesses in Mexico.

As CEO and founder I provided the company **vision** and helped growth the company with that vision and our values.

The company assets were **acquired** by dub5 (linkedin) on February, 2016.

As the lead **backend** engineer I **designed** and **implemented** the **architecture**, **backend**, **deployment** strategy and **provisioning** for our servers. The stack was **Ruby on Rails**, **PostgreSQL**, **Javascript**, and **Common Lisp**.

Open source contributions:

- active_record_bateries
- · devenv_build



Spire Global, Inc (previously NanoSatisfi)

August 2013 - November 2013

Spacecraft Software Engineer

As a **Spacecraft** Software Engineer my role was to build software operating NanoSatisfi satellites.

For the 2nd-gen **CubeSat** ArduSat2, I built the **firmware** that controlled in the radio communications module. I improved vendor supplied code to support our communications and ground-satellite file transfer **protocols**.

For the 3rd-gen satellite, Lemur-1, I built a **linux daemon** that was the primary process monitoring and controlling the rest of the satellite's modules. The **microcontrollers** were all **ARM**. We developed in **C** with **FreeRTOS** for Ardusat2, and embedded **Linux** for Lemur-1. Our build tools were **Python** based.

Open source contributions:

- atmega2560-xmem
- libohnoes

© CONTACT

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=	ebobby AT ebobby.org
•	http://ebobby.org
8	Github ebobby
31	stackoverflow Francisco Soto
6	Linkedin Francisco Soto
0	Twitter ebobby

A LANGUAGES

Professional working proficience	■ English
Native or bilingual proficienc	

RELEVANT SKILLS

C

Common Lisp

Embedded Systems

JavaScript

Linux

Ruby

Ruby on Rails

Software Engineering

SQL

血 EDUCATION

2001 2005

Universidad de Sonora

B. C. Computer Science

embedded-dev64



Expensify

★ ¶ February 2013 – June 2013

Sr. Software Engineer

As a Senior Software Engineer my role involved adding and improving features and fixing bugs all over Expensify's stack.

I worked on Expensify's **single page application**, **jQuery** and **Javascript**. I worked on the **backend** (integrations, web/mobile api, data consumption) which was written in **PHP**.

I also had the opportunity to improve Expensify's database and email deamons, custom built in **C++** and were designed specifically for Expensify's security and performance needs.

I also was the company's **SQL** guru. I **optimized** and improved **queries** all across the board. As an example, I fixed a long running analytics exporting script to take \sim 20 minutes instead of \sim 18 hours.

Open source contributions:

tracing.js



INgrooves

April 2009 – December 2012

Software Engineer / Engineering Manager

I worked with INgrooves's enterprise-level end-to-end, automated digital supply chain system for the distribution and administration of digital media assets.

My most significant contributions:

- Manage small technical teams and write significant parts of the code in two major, years long, projects.
- A system in charge of ingesting metadata and files of digital content. The system was scalable and reliable. It had to ingest content 24/7. Any disruption in the service at critical times, like christmas, would mean millions of lost revenue.
- A scalable and reliable ETL system in charge of ingesting the metadata and distribution rights for digital media. The SLA for this system was severe and it was met with flying colors and room to spare.
- Improve the stability, code quality and scalability of our underlying platforms and systems.

The stack was Microsoft's. **MS SQL Server**, **C#** and **.NET**. Also **C++** and **Python** for tooling.

Open source contributions:

· has-many-with-set



Nearsoft

August 2008 - September 2009

Sr. Software Engineer

The most significant project I worked on was an online "haggling" SaaS application, Fididel. The backend was **PHP/Zend/MySQL** and the frontend was only **jQuery**.

We used **XMPP** as the protocol for commucations. We used **ejabberd**, **COMET** and **Javascript**. I wrote the client protocol implementation in **Javascript**.

The online web-based chat worked in *every* browser with no downloads nor plugins required which was quite a feat at the time.

REFERENCES

Francisco, aka Bobby, was a key contributor to some of our biggest projects (and **solved some** of the hardest problems) on the backend team at CareZone. If a DB query is slow or some operation just seems to be taking longer than it should, Bobby is your man to jump in and investigate — and to teach others how to drive the investigation for the next time around. One thing I really love about Bobby is that even when he's working with high-level languages and frameworks (e.g. Ruby/Rails), he deeply understands the internals of the system and that knowledge drives better architectural decisions. And I also truly appreciate his positive attitude and great sense of humor. Bobby is great!

Lauren Lavoie - CareZone

I worked with Bobby while at CareZone. He's **passionate** about his work, appropriately **opinionated**, and **gets sh*t done**. Plus, he's a **stand up guy** to boot; I'd work with him any time. Please don't hesitate to contact me if you have questions.

Chi-Kai Chen - CareZone

I've seen Francisco go **above and beyond** in researching the best solution for a problem that other think is very complicated, I don't know how he does it but he always comes back with an **elegant, performant and scalable** solution. If you want to work with someone that know how to dive deep into code, or **understand the business** at a high level Francisco will be you

Roberto Carlos Gonzalez Flores - eBay Inc.

Francisco is a great guy, very **smart** and **productive**, he knows his tools and is always up to date with technology He's **reliable** and always **delivers on time**. Very sociable and has great experience on the field

— Alfonso Harita - Trimble Inc.

Francisco's one of the **best developers** I've had the chance to work with. He has a **great breadth of experience** from embedded development to web programming, and yet still has a surprising **depth of knowledge** in many areas.

Furthermore, I've seen him pick up and use new tools well with **frightening speed**. If the opportunity is available to you, hire the heck out of him.

Kevin Kuchta - Joyable

CIDIA

Centro de Investigación y Desarrollo de Ingeniería Avanzada (CIDIA)

February 2006 - August 2008

Researcher/Developer

I worked on:

- I managed the team and contributed to a bovine carcass meat grader application. Using computer vision and image processing it could detect and measure the features required for grading using the Mexican standards. This system has been published in magazines, newspapers, and was invited to the national fair science hosted by the Mexican Senate during September, 2007.
 - It is still actively used by state slaugterhouses and meat distributors.
- An image processing application with filters, formatting and data analysis
 as a research tool for a 2D image to 3D rendering optical profilometry
 project.
- A software interface for a temperature/humidity sensors used inside an industrial computer system. It measured, logged and ultimately powered the system off in the case of leaks or over heating.
- A J2ME cellphone application for image analysis for use in the roasting
 process in the coffee industry. This was ultimately dropped as the
 cellphones at the time didn't have enough image quality to do serious
 image analysis. It was ported to a C# WinForms application and an
 industrial strength camera. This system was patented (WO2010080016).

Francisco is the kind of software engineer that others aspire to be. He is diligent, experienced, curious, forth-right, and tenacious. In the short time I worked with Francisco, I was amazed by his ability to jump into a pool of unknowns, and deliver a spacecraft in just a few short months, especially considering the fact that he had never worked in aerospace before.

Marshall Culpepper - Kubos Corporation

Francisco is a **highly skilled** developer always **one step ahead**, very **product oriented** and always focusing on **finding solutions** that will work in the long run. Working with Francisco helped me grow professionally and personally. He always concentrates on creating **scalable solutions** and looks forward to build an strong and integrated team

Sandra Vazquez - Nearsoft, Inc

Francisco loves software development and demonstrate **passion** for work, he's **eager to learn** new things, **leadership** and **technical skills** level makes him the kind of professional you would like to have in your team.

- Julio Cesar Gonzalez - Nearsoft

Francisco is a very good **problem-solving** developer with a lot of **experience**.

Martin Cotta - NerdWallet

ECURRENTLY PLAYING WITH

ArchLinux

LXC

Computer Graphics

Rust (a raytracer in Rust)