

JUAN IGNACIO SÁNCHEZ LARA

I'm a **Computer Science Engineer** working on software development and management since 2002. I've delivered projects and contributed to growth at **startups and enterprise** companies, and also started **my own projects**. My interests include **team management, databases, and Agile development**. I collaborate with **Cylicon Valley**, a local group that organizes meetups and two yearly conferences with +200 attendees. I write about [software development at juanignaciosl.github.io](https://juanignaciosl.github.io).

EXPERIENCE

Felt Individual Contributor

2021 OCT - current, remote position for Oakland as a contractor

I joined in the seed stage for defining and implementing the architecture that delivered **MVT tiles from user-uploaded data at global scale**. It started with FastAPI (Python), Retool, and the usual geo toolbox (PostGIS, GDAL, ogr...). Then it evolved towards AWS with Step Functions. Continuous deployment and operations were implemented with GitHub Actions and AWS CDK.

Tierra Tech Lead

2019 JUL - 2021 SEP, remote position for San Francisco and CDMX as a contractor

I joined in the seed stage for **Engineering Team management** (~6 engineers) **and development tasks**. I led the roadmap definition and the evolution of the stack, including Deck.gl, React, GraphQL, PostGIS, Python... We evolved from monolithic DB deployment to incremental deployment, including data QA tooling and feature flagging. DB and queries optimization were needed to get the most out of PostgreSQL, which was being used as an analytical DB. We built a risk analysis tool that leveraged +15M incidents to deliver meaningful insights to users.

CARTO Developer ++ Team Lead ++ Data Principal

2014 OCT - 2019 JUL, remote position for Madrid

I joined as a **Ruby on Rails backend developer** addressing new features, such as feature flags or map exporting, and maintenance of legacy code at REST APIs and web apps. CARTO was serving tiles for maps in the home pages of traffic-heavy pages such as BBC, and mission-critical tooling, in SaaS, on-premise, and open source deployments. This involved learning about safe DB migrations and DB optimizations.

I was promoted to **Backend Team Lead**, still coding but also managing the team, which scaled up to ~7 senior engineers.

Then I became the **Data Team Lead** to deliver quality data to users.

Finally, as **Data Principal**, my focus moved to product-technology fit, designing and implementing **APIs and services for interactive applications at terabyte scale**.

IDIOM COACH Factotum Co-founder

2016 SEPT - 2017 JULY, side project

This project explored the opportunity in **getting feedback from an actual English teacher** on every email, GitHub comment, or even tweet that you

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SIDE PROJECTS

Cylicon Valley collaborator:

[WeCode '18-19](#), [LechazoConf '17-19](#) (+200 attendees each), [meetup...](#)

IDIOM COACH: Scala, Play, Slick, PostgreSQL

Nemesis Energy: Scala, Play, Slick, PostgreSQL, AngularJS

inCitee: Python, Django, iOS

Mis Ofertas de Viaje: Scala, Play, Slick, PostgreSQL, AngularJS

The Exif Game: iOS

TALKS

[99 Bottles of OOP Coding Dojo](#) 2018

[PostgreSQL: The one tool to bring to a desert island](#) 2017

[Do we build the right tools right?](#) 2017

[SQL Performance Explained](#) 2016

[Introduction to Location Intelligence with CartoDB](#) 2016

[Continuous Integration at CartoDB](#) 2015

[De Waterfall a Kanban pasando por Scrum](#) 2012

English

First Certificate ('00), **Linguaskill C2** ('17), **+8 years working remotely in English**

wrote. I built it with Scala, Play, and PostgreSQL. A diff was sent to customers with the corrections, on a daily basis.

Freelancing **Developer**

2013 - 2014, side project

I delivered 2 major projects for other companies:

- **Digital signature** app, iOS.
- Sensor monitoring system for an energy efficiency company.

Compiled Cubes **Co-founder and Developer**

2012 - 2013, side project

I co-founded the company and created inCitee, an **app for customer acquisition and loyalty**, focused on geolocation and deals, mixing Groupon and Foursquare. I tackled iOS and web development.

Junta de Castilla y León **Systems Analyst**

2012 - 2014

Software Analyst role. Maintenance and evolution of JEE + Oracle applications, including heavy SQL refactoring.

Centro Experimental del Conocimiento **CTO**

2008 - 2012

Developing and leading a +15 engineers team with agile methodologies, software stack decisions, project management, JEE software development... Hudson (now Jenkins) was introduced for continuous release.

ITACyL **Software Analyst**

2006 - 2008

Project management and software development with JEE, Spring, JSF...

Thales Information Systems **JEE Developer**

2005 - 2006

Telefónica I+D **Web and Security Developer**

2004 - 2005

Ayuntamiento de Valladolid **Web Developer**

2002 - 2003

TRAINING

Universidad de Valladolid **Information Systems Engineer**

2000 - 2006

5-year University degree (3-year Information Systems degree + 2-year Computer Science degree). Final project: "eiGrid Parallel Processing Infrastructure", involving **job queues and parallel batch processing on High Throughput Systems**.

COURSES

Université de La Rochelle

Applied Informatics and Multimedia

Coursera

Functional Programming in Scala Specialization: Functional Programming Principles ++ Functional Program Design ++ Big Data Analysis with Spark

Data Engineering on Google Cloud Platform Specialization: Serverless Machine Learning with Tensorflow on Google Cloud Platform + Serverless Data Analysis with Google BigQuery and Cloud Dataflow ++ Leveraging Unstructured Data with Cloud Dataproc on Google Cloud Platform ++ Google Cloud Platform Big Data and Machine Learning Fundamentals ++ Building Resilient Streaming Systems on Google Cloud Platform

Introduction to Big Data Analytics

Hadoop Platform and Application Framework

Introduction to Big Data

The Data Scientist's Toolbox

Introduction to Data Science in Python

Python Programming: A Concise Introduction

Web Application Architectures

Principles of Reactive Programming

Functional Programming Principles in Scala