

# 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 **backend developer**, addressing new features and maintenance of legacy code at REST APIs and web apps. The work involved Ruby, PostgreSQL/PostGIS, and Python.

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**. This new team leveraged Python, Node, PostgreSQL, and Google Cloud services among other technologies, to deliver quality data to users.

Finally, as **Data Principal**, my focus moved from management 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 wrote. I built it with Scala, Play, and PostgreSQL. A diff was sent to

[juanignaciosl.github.io](https://juanignaciosl.github.io)  
[github.com/juanignaciosl](https://github.com/juanignaciosl)  
[linkedin.com/in/juanignaciosl](https://linkedin.com/in/juanignaciosl)

[www.juanignaciosl.com](https://www.juanignaciosl.com)  
[juanignaciosl@gmail.com](mailto:juanignaciosl@gmail.com)

Valladolid, Spain

## 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**

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, implemented with AngularJS, Scala, Play, and PostgreSQL.

## 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, from requirement analysis to development, of a JEE + Oracle application.

## 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...

## 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**