

# JUAN IGNACIO SÁNCHEZ LARA

I'm a **Computer Science Engineer** who has been developing software since 2002. I've delivered projects and contributed to growth at **startups and enterprise** companies for almost 20 years. I like **team management, databases, coding and Agile development**. I collaborate with **Cylicon Valley, a local development group** that organizes meetups and two yearly conferences with +200 attendees. I write [about software at \*\*juanignaciosl.github.io\*\*](#).

## EXPERIENCE

### Tierra Tech Lead

2019 JUL - 2021 SEP, remote position

I joined Tierra in the seed stage as Tech Lead encompassing **Engineering Team management** (~6 people) **and development tasks**. I led the roadmap evolution and worked on the evolution of the development stack, including Deck.gl, Google Maps, React, TypeScript, Node, GraphQL, MVT, PostgreSQL, PostGIS, Python...

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

I began as a **backend developer**, addressing both new features and maintenance of legacy code, including...

- Orders of magnitude performance improvements.
- Large refactors, so the team owned the codebase.
- Visualization exporting format and tooling.

The work involved **Ruby** and pushing **PostgreSQL/PostGIS** to the limit, and also **Python** for an SDK.

I was promoted to **Backend Team Lead**, still coding and also scaling the team up to ~7 senior developers.

Then I became the team lead of the new **Data Team**. This team leveraged **Python, Node, PostgreSQL and Google Cloud services** among other technologies, to deliver quality data to users.

My last position was **Data Principal**, where my focus moved from team management to product-technology fit and software design. I designed and implemented **new APIs and services for interactive applications at terabyte scale**.

### IDIOM COACH Factotum Co-founder

2016 SEPT - 2017 JULY, side project

At my employer every communication was made in English, and I thought that there was a business opportunity: *what if you got feedback from an actual English teacher on every email, GitHub comment or even tweet that you wrote?* I built IDIOM COACH, collecting writings and enabling teachers to review them. A nice diff was sent to customers with the corrections, on a daily basis.

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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

## COURSES

*Université de La Rochelle*

**Applied Informatics and Multimedia**

## Freelancing **Developer**

2013 - 2014, side project

I delivered 2 major projects for other companies:

- **Digital signature** app, iOS.
- Sensor monitoring system for a energy efficiency company, **AngularJS + Scala + Play + 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

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 developer team with **agile methodologies, software stack decisions, project management, JEE software development...**

## ITACyL **Software Analyst**

2006 - 2008

Project management and software development (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**.

### **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**

## SKILLS

Python, JavaScript, TypeScript, Ruby, Scala, Java...

PostgreSQL, PostGIS

English: First Certificate ('00), Linguaskill C2 ('17), +7 years working remotely in English