

# Cristian PEREZ BROKATE

Senior data scientist / Web developer

<https://cristianpb.github.io>

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Paris, France



## Experience



### French Interior Ministry

Dec 2019 - present

#### Full stack Data Scientist

- Responsible for internal computing infrastructure including a GPU server and servers with more than 1To RAM
- Preparing robust data pipelines for cleaning and improve data
- Developing optimized machine learning models in a CI/CD chain
- Developing web applications with modern JavaScript frameworks

#### Entrepreneur d'Intérêt Général

Feb 2019 - Nov 2019

- Promoted innovation and openness culture at French administration with specialized skills from the private sector
- Implemented image recognition algorithms using deep learning for the French National agency for automated offence processing (ANTAI)



### Kernix

Data Scientist

Jan 2017 - Jan 2019

- Managed and delivered data science projects from scoping to planning, execution and present it in front of stakeholders
- Developed a scoring model for finance and insurance French companies
- Implemented an object detection algorithm for a British startup
- Created a recommendation system for a French bank website
- Coached, taught, mentored, hunted and hired highly skilled PhD level scientific personnel
- Knowledge transfer to junior data teams (statistical/machine learning models, coding, good practices)



### Atomic Energy and Alternative Energies Commission

PhD Graduate

Nov 2013 - Oct 2016

Corrosion modelling using stochastic methods

- 6 scientific publications at international peer reviewed journals
- 4 presentations at the scientific international congress
- Parallel programming using CUDA language in NVIDIA GPU
- Data analysis and visualization using python, gnuplot and R

## Hobbys

- Running: Plan and execute team based trainings
- Blogging: Mostly about tech stuff <https://cristianpb.github.io/blog>

## Education

2016



PhD in Physical chemistry  
**Sorbonne Université**

2013



Master in Materials,  
Processing and Modelling  
**École Nationale  
Supérieure des Mines  
de Paris**

2012



Engineer + Master in  
Materials and Production  
**École Nationale  
d'Ingénieurs de Metz**

2010



Engineer in Mechanical  
engineering  
**Universidad Industrial de  
Santander, Colombia**

2007

## Technical Stack

Data science:

Python  
 OpenCV  
 PyTorch  
 Pandas

Data eng:

MongoDB  
 Neo4j  
 Elasticsearch  
 SQL

Web dev:

TypeScript  
 NodeJS  
 Leaflet  
 ChartJS  
 Angular  
 Svelte

DevOps:

Docker  
 Heroku  
 GitHub  
 AWS  
 OpenStack  
 Ansible

## Languages

English  
 French  
 Spanish