

# Cristian Garcia

DATA SCIENTIST · DEVELOPER

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*"Background in Math & Physics"*

## Summary

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Data Scientist and Software Developer with a strong background in math, physics, programming, deep learning, and deep reinforcement learning. Extensive experience creating real world applications. Expert on several frameworks, including TensorFlow, Keras, scikit-learn and Spark. Member of Toptal.com (Top 3% of freelance developers in the world).

## Experience

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### Toptal

TOPTAL DEVELOPER

Toptal connects the top 3 % of freelance talent all over the world. [Profile](#)

*International*

*Current*

### Kiwi Campus

LEAD DATA SCIENTIST

Lead Data Scientist and Deep Learning developer for autonomous driving delivery robots. Used Deep Learning techniques like CNNs and RNNs for autonomous control, with technologies such as TensorFlow, ROS, Jupyter, Flask.

*Bogotá, Colombia*

*Current*

### Data Scientist

BD GUIDANCE

Data Scientist: Designed the curriculum of various Data Science/ML courses. Evaluated various IoT platforms. Investigated technologies such as TensorFlow and OpenCV to run ML algorithms in IoT devices.

*Colombia*

*2016*

### Senseta

DATA SCIENTIST

Developed a Linux and Windows python application for HR software to measure employee productivity. Cleaned and analyzed large datasets using Spark and Zeppelin. Created a service in Python for Entity extracting using NLTK. Created a generic ML prediction service using Scikit Learning and Flask

*Medellin, Colombia*

*2016*

### PTK

MATHEMATICAL DEVELOPER

Researched on strategies to optimize pickup planning in warehouses. Researched on technologies to create scalable multi-tenant software

*Colombia*

*2015*

### AristaDev

COFOUNDER - DEVELOPER

Cofounder and main developer on an Augmented Reality platform. I developed the mobile client and backend of Arista using technologies such as Unity3D, Elixir, Docker, Nginx, and PostgreSQL.

*Colombia*

*2014*

## Open Source Projects Developed

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### PHI

Phi library for functional programming in Python that intends to remove as much of the pain as possible from your functional programming experience in Python.

### DATAGET

dataget is a Bash and Python library that helps you download popular, organize and process popular machine learning datasets. Its goal is to make readily available as many ML datasets as possible to users of any language. For Python users it also had the added benefits of exposing an interface to access the training-set and test-set as pandas dataframes or numpy arrays, and also random batch generators of the previous for large datasets.

### CYBRAIN

CyBrain Neural Networks in Cython, inspired by PyBrain, but focused on speed.

## TFINTERFACE

tfinterface is a high-level neural network API that tries to reduce the common tasks in building, training and evaluating neural networks, written in coco and python and build on top of TensorFlow. A light wrapper over TensorFlow that enables you to easily create complex deep neural networks using the Builder Pattern through a functional fluent immutable API

## KARMA

Karma is an MVC framework for Unity3D. Because of how Unity is structured, it actually turns out to be an MVCP architecture

## Areas of Interest

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Deep Learning/Neural Networks, Artificial Intelligence, Optimization/Heuristics, Mathematical Modelling, Agent-based Simulation, Network Analysis, Functional Programming, Distributed Systems

## Languages

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Assesment, **Fluent:** English, Español

## Programming Tools

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**Programming Languages** Python: 6+ years, Matlab: 6+ years, Mathematica : 3+ years, C#: 2+ years, Elixir: 2+ years, JavaScript: 1+ years, Dart: 1+ years, Cython: 1+ years, C, Haskell, Java, Lisp, Scala

## Tools/Frameworks

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**Data Science:** Tensorflow (python), Scikit Learn (python), Pandas, Numpy, NetworkX (python), Spark (scala/python), AnyLogic (java)

**Development:** Phoenix Framework (elixir), Flask (python), Graphine (graphql + python), Git, Unity3D (c#), PostgreSQL, MongoDB, RethinkDB

## Community

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### Organization/Groups

- Co-founder of Machine Learning Colombia
- Co-founder of Machine Learning Meetup Medellin
- Founder of colomb-ia

## Talks/Conferences

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- Deep Learning with TensorFlow at Machine Learning Meetup Medellin
- Introduction to Spark at Machine Learning Meetup Medellin
- Deep Learning & TensorFlow at Big Data & Data Science Bogotá
- Deep Learning with TensorFlow at pataconf
- Introduction to Deep Learning with TensorFlow at PyCon Colombia
- Scalable Deep Learning with TensorFlow at ScaleConf Colombia
- TensorFlow for Developers at Machine Learning Meetup Medellin

## Personal Projects

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- Basic ConvNet for the German Traffic Signs Dataset
- SqueezeNet with Batch Normalization on TensorFlow
- An implementation DenseNet with ELU layers on TensorFlow