

Cristian Garcia

DATA SCIENTIST · DEVELOPER

Medellin, Colombia

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🏠 toptal.com/resume/cristian-garcia

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"Background in Math & Physics"

Summary

Cristian is a machine learning engineer and developer with a background in math and physics. He has extensive experience creating machine learning applications in fields such as autonomous vehicles, video analytics, and manufacturing. His strong combination of theory, coding, and infrastructure knowledge enables him to create real machine learning-based products. He is an expert on several frameworks including Tensorflow, Numpy, Keras, ScikitLearn, Pytorch. Contributor to various open source projects including Pypeln (author) and Tensorflow Addons. He is a community leader and active speaker at conferences world-wide, founder of the Machine Learning Meetup Medellin, and cofounder of Machine Learning Colombia. Cristian is member of Toptal: top 3% of the developer talent in the world.

Experience

Snappr Inc

SENIOR MACHINE LEARNING ENGINEER

Medellin

Current

Developed Machine Learning applications to automate tasks throughout the company such as client sales prediction, demand forecast, photo aesthetics prediction, image clustering, models using GIS data, and more using both Machine Learning and Deep Learning.

Landing AI

MACHINE LEARNING ENGINEER

Medellin

1 year

Developed Automatic Visual Inspection solutions using Deep Learning techniques for clients in the automotive industry. Developed an internal tool to that enabled training deep learning models with small datasets. Worked on a generative model for images using GANs.

Bigbang Media

LEAD ENGINEER IN COMPUTER VISION

Los Angeles, CA

6 months

Developed various Deep Learning models for tasks like video classification and event detection in videos using distributed Tensorflow, TPUs, and Dataflow.

Kiwi Campus

LEAD DATA SCIENTIST

Berkeley

1 year

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.

Toptal

TOPTAL DEVELOPER

International

Since 2017

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

BD Guidance

DATA SCIENTIST

Colombia

1 year

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.

Senseta

DATA SCIENTIST

Medellin, Colombia

1 year

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

PTK

MATHEMATICAL DEVELOPER

Colombia

8 months

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

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.

Open Source Projects Developed

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

Areas of Interest

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

Languages

English C1, Spanish Native

Programming Tools

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

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

Organization/Groups

- Co-founder of [Machine Learning Colombia](#)
- Co-founder of [Machine Learning Meetup Medellin](#)
- Founder of [colomb-ia](#)

Talks/Conferences

- Deep Learning for Autonomous Vehicles at [Rockstar Data Scientist - Medellin 2017](#)
- [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

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