

# Felipe Caballero

thinker - humanist - entrepreneur - computer engineer - developer

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Bogotá, Colombia

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I am a Multilingual Computer Scientist with a Master in Business Engineering. I have 10+ years of Web development experience. Throughout my career, I have cultivated a strong understanding of both the business and user experience aspects of technology. Since 2019, I have been actively transitioning into the field of Artificial Intelligence. To further my expertise, I completed the Machine Learning Engineer (MLE) course at FourthBrain.ai, which is supported by the AI Fund. I was honored to receive the Top Project Award for my Capstone project.

In addition to my technical skills, I consider myself a good listener and an empathetic individual. Speaking different languages has allowed me to effectively engage with diverse audiences. I am known for my integrity and adaptability, traits that enable me to collaborate with diverse teams.

My passion lies in leveraging Machine Learning and Data Science to tackle complex business challenges alongside dynamic teams.

## education

### **Machine Learning Engineer**

FourthBrain.ai, 2022

### **Master in Business Engineering**

Universidad Adolfo Ibáñez, 2012

(Chile - Magíster en Ingeniería de los Negocios)

### **Computer Engineer**

Universidad Adolfo Ibáñez, 2010

(Chile - Ingeniero Civil Informático)

## spoken languages

- Spanish
- English
- French
- Portuguese (a bit rusty)

## computer skills

- Machine Learning
- Data Analysis
- Computer Vision
- TensorFlow
- Web scraping
- Linux / Bash
- Basic network knowledge
- Python, PHP, SQL
- HTML / CSS / Ajax / JS / MVC
- Version control (git / svn)
- Docker (beginner)

## Experience

### **Sabbatical**

2021-2023

Dedicated time to personal growth and pursued diverse studies, notably AI.

### **Conceptual software development: *Vuejs\_tree***

2019 - 2020

[https://github.com/caballerofelipe/vuejs\\_tree/](https://github.com/caballerofelipe/vuejs_tree/)

Center for Cognitive Neurosciences, Universidad de San Andrés, Argentina

Created, alongside Eugenia Hesse, a conceptual software to allow replicable scientific analysis methods using tree structures. *Vuejs\_tree* was conceived to allow the creation of a tree structure defining different analysis methods, store the tree as a file and pass it to someone else for replication.

Built using JavaScript, Node.js, Electron.js, Vue.js, HTML, CSS, Unit Testing.

### **Sales Manager**

2019

Retail Rocket LATAM, Chile

Even though the job title states 'sales' the real focus was on implementing Retail Rocket's solution on clients' websites and making sure the solution worked as expected. Gave support to the sales team regarding technical challenges and knowledge. Also served as a link between Retail Rocket technical department and the clients' implementation team.

### **CS50 Instructor**

2016

Universidad Adolfo Ibáñez, Chile

Taught class of 62 students.

Topics: Programming concepts (instructions, logic, conditions, events, loops, variables, functions, compilation, memory allocation, pointers), Data structures (stacks, heaps, strings, queues, lists, hash tables, trees), C, PHP, Searching and sorting algorithms, Linux concepts, HTML/CSS/JavaScript, Networking concepts.

### **General Manager, Founder**

2009-2020

Flat Ltda. (deceased), Chile

Created corporate web sites and support systems for companies in Chile:

- Designed, programmed and led a team of five (2 programmers, 2 sales persons and 1 designer).
- Developed a PHP framework from ground up based on Git to allow easy code deployment and code updating throughout different projects.
- Created a call center information management system to allow client tracking, created automated reports and did general data analysis.
- Promoted deep documentation practices which allowed faster implementation and replication times. Allowed fast integration of new team members. Documentation included code and processes. Hosted on a private wiki.
- Created an external wiki to share knowledge gained with the world.

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## projects

### **Computer Vision Retinal OCT \* Top Project Award**

2021 - 2022

<https://github.com/tomos-ai/OCT-Transfer-SemiSup/>

@ FourthBrain.ai

Used Machine Learning for condition recognition in the image dataset, three abnormal conditions were present alongside normal retinas.

- Did architecture (Resnet50, Inception-v3, VGG16) and parameter selection.
- Used Transfer Learning (using ImageNet and COVID-CTset as base).
- Implemented Semi Supervised Learning (using only 5% of labeled images).

Improved performance on a limited labeled dataset (5% labeled) using a semi-supervised learning approach: 0.9% F1 score improvement from the baseline.

Retinal OCT: Retinal Optical Coherence Tomography creates images by scanning the back of the eye using specified equipment. An ophthalmologist can detect different eye conditions to treat them. Detecting and treating these conditions in early stages usually means recovery and no vision loss.

### **Santiago Stock Exchange Scraping / Model**

Stock information scrapping program. Used the data to create a Neural Network model.

### **Raspberry Pi / Arduino tinkering**

Tinkering projects using an Arduino, such as an LED counter. Tinkering projects using a Raspberry Pi, such as an internet status indicator, a replication of Knight Rider's car front light and a temperature logger.

### **Office presence monitor using Wi-Fi**

A program to keep track of who is in the office to keep track of their arrival time and presence throughout the day, without the need for a user triggered logging. With this program nobody had to clock-in or clock-out.

### **macOS automation**

<https://github.com/caballerofelipe/osx-automator-services>

Automations useful for some daily task such as making a to-do from an email and inserting the current date and time by pressing a shortcut.

## courses

### **Specializations, Coursera**

DeepLearning.ai

2018-2023

(5/5 courses)

Investment Management

Université de Genève

2020-2021

(4/5 courses)

Mathematics for Machine Learning

Imperial College London

2020-2021

(3/3 courses)

### **Courses, Coursera**

Getting started with TensorFlow

Imperial College London

2020

Getting Started with AWS Machine

Learning

2019

### **Self-paced courses**

From NAND to Tetris

Coursera Machine Learning by  
Stanford University

## more about me

### **Interests**

- Artificial Intelligence
- Behavioral Economics
- Finance
- Human development
- Raspberry Pi
- Culture / Geopolitics
- UX

### **Hobbies**

- Reading
- Pets
- Snowboarding
- Inline skating
- Movies
- Board games
- Learning
- Profound conversations
- Meditation
- Music