

Felipe Caballero

thinker - humanist - entrepreneur - computer engineer - developer

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github.com/caballerofelipe



I am a Multilingual Computer Scientist with a Master in Business Engineering. I have 10+ years of Web development experience. From my previous work, I have good understanding of the business and user experience side of technology. From 2021 on I've been transitioning into a new career in Artificial Intelligence, I did the Machine Learning Engineer (MLE) course in FourthBrain.ai (backed by the AI Fund) where I obtained the Top Project Award on my Capstone.

I see myself as a good listener and an empathic human being. Speaking different languages, I have developed good communication skills. I believe I have the integrity and flexibility to work well with diverse teams.

I am interested in solving business problems with dynamic teams using Machine Learning and Data Science.

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

Conceptual software development: Vuejs_tree

https://github.com/caballerofelipe/vuejs_tree/

Center for Cognitive Neurosciences, Universidad de San Andrés, Argentina / 2019 – 2020

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

Retail Rocket LATAM, Chile / 2019

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

Universidad Adolfo Ibáñez, Chile / 2016

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

Flat Ltda., Chile / 2009 – 2020

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

Machine Learning Engineer

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

Computer Vision Retinal OCT @ FourthBrain.ai / * Top Project Award / 2021 – 2022

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 scraping 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
2018-2019
(4/5 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