

in catalina-carabajal
∫ github.com/catwin94
∫ catwin94.github.io



# **SUMMARY**

I am Catalina CARABAJAL. In recent years I decided to change my career focus to the programming side. To that end I started taking courses of Web Development mainly and some Data Science and Python. I am currently looking for junior positions on that area.



## **WORK**

### Researcher / Nov 2019 - Oct 2021

#### **CEA - France**

Development of advanced perturbation and sensitivity methods for Monte Carlo simulations.

Submitted paper at PHYSOR 2022

C++ Tripoli-4 Git Python Linux

### Internship / Sep 2018 - Mar 2019

#### **CNRS - France**

Fast neutron detection (10 keV up to 20 MeV) with MIMAC-FastN, a 3D nuclear recoil track detector studying nuclear reactions for neutron production: 9Be(d (1.5 MeV), n), 9Be(p (3.6 MeV),n) and 7Li (p (2.5 MeV),n).

C++ Linux

### Summer Internships / Jan - Feb

#### **CNEA - Argentina**

- 2017 Internship at Constituyentes Atomic Center
- · 2016 Internship at Ezeiza Atomic Center
- **2015** Internship at Bariloche Atomic Center Publication at XLII AATN.

CYPE - Metal 3D



### **PROJECTS**

### e-commerce

- https://github.com/catwin94/e-commerce
- https://catwin94.github.io/e-commerce/

A React.js project entirely designed by myself using all the tools I learned from courses.

ReactJS Redux Route Json API SASS JavaScript CSS HTML

### stone-paper-scissor

- https://github.com/catwin94/stone-paper-scissor
- https://catwin94.github.io/stone-paper-scissor/

My first basic project combining JS, HTML and CSS.

JavaScript CSS HTML



### **Courses**

### Frontend Developer / Platzi

HTML CSS SASS grid & flexbox responsive

**Basic Javascript / Platzi** 

JavaScript

Modern Javascript Definitive Guide / Udemy

JavaScript DOM React OOP

React.js practice course / Plazi

ReactJS Route Redux React Hooks

Frameworks and Librearies of JavaScipt / Plazi

React functional components Styled components

CSS-in-JS

Python Introductory course / IEEE - ITBA

Python

Data Analysis / IEEE - ITBA

Python Pandas Numpy Matplotlib



# **EDUCATION**

### Nuclear Engineer - Jul 2018

Master - 8.25/10.00 (top 1%)

Instituto Tecnológico Dan Beninson (IDB), Argentina Vice-President & Co-founder of the Student Center IDB **Thesis** Deterministic analysis of the RA-10 loop in presence of a LOFA in relation with different flywheels using the thermo-hydraulic simulation software RELAP.



## SKILLS

**Languages:** Spanish native, English advanced, French beginner

**Programming:** Python, C++, Matlab, JavaScript **Web:** ReactJS, HTML, CSS, SASS, Json, Redux

**Data Science:** Pandas, Numpy, Matplotlib **Other:** Git, Unix, Tripoli-4, RELAP, Autodesk - AutoCAD

2D, MCNP - Los Alamos National Lab, Mathcad PTC,

GammaVision (Gamma Spectroscopy)