

Juan B. Pedro

Software Engineer

Juan Bautista Pedro Costa

C/ Lepanto, 54
08290, Cerdanyola del Vallès (Barcelona)

(34) 646 66 72 84
sensio.juan@gmail.com
github.com/juansensio

juansensio.com
twitter.com/juansensio
linkedin.com/in/juanbpedro

Skills

Lifelong and fast learner
Doer and deep worker
System designer and builder
Startup experience

Experience

Programming Languages

Python (6 years)
Javascript (5 years)
C++ (4 years)

Frontend

HTML, CSS (5 years)
React, NextJS (5 years)
Svelte (4 years)

Backend

FastAPI (4 years)
Pytest (4 years)
MongoDB, Redis (4 years)
Firebase (2 years)
Node, Express (1 year)

Cloud

Azure (1 year)
OVH (2 year)

DevOps

Git (6 years)
Docker (4 years)

Machine Learning

Pytorch (5 years)
Pytorch Lightning
Scikit-Learn (4 years)
Tensorflow, Keras
Numpy, Pandas, Matplotlib

Languages

Spanish (native)
Catalan (native)
English (C2)
French (B1)

I love to build intelligent systems that can solve real world problems and leverage new business opportunities. From the system design, implementation and deployment at scale, I work with the entire stack.

EarthPulse, Co-Founder & CTO

2020-Today, Barcelona

Technical Director of EarthPulse, a startup working in the intersection of Artificial Intelligence and Earth Observation. Designed and implemented backend and frontend products and AI models for satellite image processing.

Universitat de Vic, Associate Professor

2020, Vic (Barcelona)

Professor of the Deep Learning for Diagnosis Decision Support Systems and Pattern Recognition with Machine learning classes of the Biomedical Engineering Degree.

Starlab, Full Stack Software Engineer

2018-2019, Barcelona

Responsible for the POINTOUT project and contributor to the GREENDEX product. Front and backend development and AI models for satellite image processing.

Termofluids, Software Engineer & Researcher

2013-2017, Terrassa (Barcelona)

Implemented a module for simulating turbulent compressible fluids into the Termofluids code.

Centre Tecnològic de Transferència de Calor, Research internship

2011-2013, Terrassa (Barcelona)

Research on the numerical simulation of turbulent compressible flows.

Projects

Online education
Content creation

Sensio Coders, Online education

2020-Today, Barcelona

Software development blog, Youtube channel and Discord community. <https://sensiocoders.com/>

Education

Universitat Politècnica de Catalunya, PhD in

Aeronautical Engineering

2013-2017, Terrassa (Barcelona)

Universitat Politècnica de València, MsC in Artificial Intelligence, Pattern Recognition and Computer Graphics.

2017-2018, València

Universitat Politècnica de Catalunya, Aeronautical Engineering

2008-2013, Terrassa (Barcelona)

Skylab Coders, Full Stack Web Development

2018, Barcelona

Publications

Convolutional neural network MRI segmentation for fast optimization of transcranial electrical current stimulation of human brain

2020

<https://www.biorxiv.org/content/10.1101/2020.01.29.924985v1>

Solving Partial Differential Equations with Neural Networks

2019

<https://arxiv.org/abs/1912.04737>

On the Numerical Simulations of Compressible Flows

2019

<https://upcommons.upc.edu/handle/2117/134627>