Axel Mendoza — Computer Vision **Engineer**

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Looking for exciting Deep Learning or MLOps opportunities

Skills

Programming Skills:

Python

SQL

C++

Frameworks: PyTorch TensorFlow Keras OpenCV Sklearn Numpy Pandas Matplotlib

Tools: AirFlow Git Unix CI/CD Docker CloudRun TensorRT

Expertise:

Medical Imaging

- Object Re-Identification
- Object detection
- Multi Object Tracking
 Autonomous Driving
- Pose Estimation

English: Fluent lived in the US Spanish: Bilingual hispanic origins

French: Native mother tongue

Papers

Deep Learning for Vessel-specific Coronary Artery European Heart Journal, 2021

O Co-author for Oxford University world famous journal at Siemens.

Projects

Autonomous RC Car 🗘 🧧

2017

Python, Keras, OpenCV 12 months

- O Remote-controlled car that predicts speed and steering angle in real-time.
- 3rd at IronCar Summer 2018 and 1st at RobotCars Winter 2018 tournaments.

Machine Learning From Scratch (7) 2020

PyTorch, Numpy, Pandas, Seaborn 3 months

 From scratch implementation of the most used algorithms in machine learning.

Experience

BOXY 6

Dec 2020

Computer Vision Engineer, Paris

Current

- O Designed person tracking and re-identification systems of an autonomous grocery store.
- O Enhanced **product attribution** using Pose Estimation.
- O Created a semi-automatic annotation pipeline to generate data for Deep Learning using Airflow and GCP.
- Managed and trained a team of 4 annotators on bounding box and pose video annotation.

SIEMENS 6

Apr 2019 - Jun 2020

Computer Vision Engineer, US

14 months

- O Improved physician diagnosis of heart disease by creating a coronary calcium detector trained with Unet and Pytorch.
- O Improved heart disease diagnosis by classifying calcium in high and low risk arteries.
- Optimized model complexity to fit hospital needs by designing a faster approach using ResNet3D.
- O Enhanced detection of mitral valve regurgitation by creating a blood flow dealiasing model using Unet trained on 3D color doppler data using Pytorch and C++.
- O Automated the training of these algorithms using AirFlow.

ENGIE 🔗

May - Nov 2018

Computer Vision Intern, Paris

7 months

- O Improved security of power-plants by designing a multicamera vehicle re-identification and tracking system using Keras and TensorFlow.
- Adapted a pedestrian re-id to vehicle tracking.

Feb - Jul 2016

Software Engineering Intern, Paris

5 months

 Improved the quality of an excel pluggin by designing an automatic testing platform using SQL and Python.

Education

EPITA

2013 - 2018

Computer Science, Data Science Major

5 years

O Top 10 computer engineering master degree and machine learning program in Paris.