Axel Mendoza | Computer Vision Engineer 3 Rue Morand - 75011 - Paris

🔇 website 🕠 github 🔊 blog 🛅 linkedin 💟 mail

Deeply passionated with Computer Vision, I am open to competitive opportunities

Skills

Programming Skills:

Python

C++

SQL

Frameworks and Tools: PyTorch TensorFlow Keras OpenCV Scikit-Learn Numpy Pandas Matplotlib Docker AirFlow Celery Git Unix

Deep Learning: Computer Vision for Medical Imaging, Object Re-Identification & Tracking and Autonomous Driving.

Machine Learning:

- Support Vector Machines \$\infty\$
- Decision Trees, Random Forests, AdaBoost \$\infty\$
- K-means. Guassian Mixture Models
- Naive Bayes
- K-Nearest Neighbors
- Polynomial Regression
- Logistic Regression
- Linear Regression

English: Fluent lived in the US Spanish: Bilingual hispanic origins French: Native mother tongue

Projects

Autonomous RC Car 🗘 💌

2017

Python, Keras, OpenCV

12 months

- Built a remote-controlled car able to predict speed and steering angle in real-time from an embedded camera.
- Participated in tournaments and got 3rd at IronCar Summer 2018 and 1st at RobotCars Winter 2018.

Machine Learning Blog 🗘

2020

PyTorch, Numpy, Pandas, Seaborn

3 months

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

Image Processing GPU 🗘

2016

CUDA C++

1 month

• Implemented edge detection and de-noising algorithms from scratch using CUDA GPU programming language.

Experience

Storelift 4

Dec 2020

Computer Vision Engineer, Paris

Current

- o In charge of redesigning the person tracking and reidentification system of an autonomous grocery store.
- Improved the vision systems by creating a semi-automatic annotation pipeline.

Siemens US 4

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.
- 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++.
- Automated the training of these algorithms using AirFlow workflows and Celery.

Engie lab Crigen 4

May - Nov 2018

Computer Vision Intern, Paris

7 months

- Improved security of power-plants by designing a multicamera vehicle re-identification and tracking system using Keras and TensorFlow.
- Implemented 2018 state-of-the-art solution and improved mean average precision by 6% by adapting a pedestrian re-id paper to vehicle tracking.
- Collaborated with the best researchers in the field after being invited to ECCV 2018.

SAP 4

Feb - Jul 2016

Software Engineering Intern, Paris

5 months

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

Education

EPITA

Apr 2018

Computer Science, Data Science Major

5 years

 Top 1 computer engineering master degree and most prized machine learning program in France.