Axel Mendoza | Computer Vision Engineer

3 Rue Morand – 75011 – Paris

❖ website ♠ github ♠ blog in 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 Sklearn Numpy Pandas Matplotlib AirFlow Git Linux

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

Machine Learning:

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

English: Fluentlived in the USSpanish: Bilingualhispanic originsFrench: Nativemother tongue

Papers

Deep learning for vessel-specific coronary artery European Heart Journal, 2021

• Co-author for Oxford University while working at Siemens.

Experience

Storelift 🚀

Dec 2020

Computer Vision Engineer, Paris

Current

- 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 🚄

Apr 2019 - Jun 2020

Computer Vision Engineer, US

14 months

- Improved physician diagnosis of heart disease by creating a coronary calcium detector trained with Unet and Pytorch.
- 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 🖪

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

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

Projects

Autonomous RC Car 🗘 💌

2017

Python, Keras, OpenCV

12 months

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

Education

EPITA

Apr 2018

Computer Science, Data Science Major

5 years

 Top 10 computer engineering master degree and most prized machine learning program in France.