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Antonin_Sumner_

Architecture_Design_

Education

_Architecture school of Marne-la-vallée
___Master of architecture 2005-2011
___HMONP diploma 2012

Work

_AIA Architects_Lyon, France
___Assistant Architect 2012
Took part in Grand Hotel Dieu restoration project drawing.

_AAgroup_Valence, France
___Junior project manager 2013-2015
Led projects at various scales from architectural design to urban design (Housing, Primary school, College school, private houses).

_AAMCO architects _ Lyon, France
___Project manager and Lead Designer 2015-2019
Led project competitions as lead designer on various project types and scales.

LORD Aerospace parts factory _ Valence, France

Pilgrims welcoming center _ Paray-le-Monial, France

NEXANS research lab _ Lyon, France

Toolkit

_Autodesk Autocad
_Autodesk REVIT
_Archicad
_Sketchup
_Adobe Photoshop
_Adobe Indesign
_Microsoft Excel

Computer_Science_

Education

_RICE University_COURSERA
___An introduction to Interactive programming 2018
___Principles of computing 2019
___Algorithmic thinking 2019

_MIT_OpenCourseware
___18.06 Linear Algebra 2019
The course covers matrix theory and linear algebra, emphasizing topics useful in other disciplines such as computer science and signal treatment.

_FAST.AI
___Practical deep learning for coders 2019
Learn to implement best practice deep learning techniques in the most widely used current areas.
• Computer Vision for Image Classification, Object Detection, Segmentation, etc.
• Recommendation Systems - Collaborative Filtering, Embeddings, etc.
• Natural Language Processing _ Classification, Generation
• Sequence Analysis

___Deep Learning from the foundations 2019-2020
Learn to build state of the art deep learning models from scratch and re-implement most of Pytorch and Fastai's functions:
• Efficient Matrix multiplication
• Better initialization methods and non-linearities (ReLU)
• Forward pass and backward pass on fully connected net
• Fully customizable training loop with callbacks and hooks
• Convolutions
• Optimizers
• Batchnorm
• Resnet

Competitions

_Kaggle.com
___ASHRAE - Great Energy predictor III
Timeseries prediction — Score: 1.42 (RMSLE)
___Skin cancer lesions HAM10000 dataset
Image classification — Accuracy: 0.81

Toolkit

_Python 3
_Pandas
_NumPy
_PyTorch
_Fastai library
_Jupyter Notebook / Lab
_Google Cloud Platform & GPUs