

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

Ai_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.

_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.
- $\boldsymbol{\cdot}$ Recommendation Systems Collaborative Filtering, Embeddings, etc.
- · Natural Language Processing _ Classification, Generation
- · Sequence Analysis **Timeseries**
- ___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 (LSUV) and non-linearities
- · Forward pass and Backward pass on fully connected net
- Fully **customizable training loop** with callbacks and hooks
- · Convolutions and Resnet
- · Optimizers WeightDecay, Mom, Debiasing, Adam, Lamb
- · BatchNorm LayerNorm, GroupNorm, RunningBN
- · Data Augmentations Mixup, LabelSmooth
- · Mixed Precision trainning

Competitions

_Kaggle.com

___ASHRAE - Great Energy predictor III Timeseries prediction — Score: 1.42 (RMSLE)

___Skin cancer lesions HAM10000 dataset Image classification — Accuracy: 0.81

Proiects

See my github repos: github.com/Brainkite

Toolkit

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