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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