

As a Green Card holder, I offer immediate eligibility for roles in the US without requiring sponsorship nor work visas.

Work Experience

- April 2022 - **MYTI.ai (startup) Miami, FL Audio and Machine Learning Engineer.**
Present MYTI provides an innovative non lethal security system using computer vision, sound and laser.
— Ensure stability and reliability of the audio system. Softwares : Max/MSP, ArmoniaPlus, Dante Virtual Soundcard.
— Implement additional software modules in Python and QT framework. Contributed to the integration of new audio payloads embedded on drones, utilizing ESP32 and Arduino code.
— Responsible for running demos of the prototype for investors.
— Conduct QA Testing with Agile methodologies, including sprint planning.
- March 2021 - **SONY : Computer Science Lab Paris Research Scientist on Tiny AI.**
March 2022 — Implemented distillation and pruning techniques for compression of deep learning models. Generative AI for music.
— Embedded ML mixing model on tiny device (Raspberry/Smartphone)
- May – October 2019 **Capgemini : Sogeti Tech Lab Paris Machine Learning Engineer Intern**
— Worked with Scrum Agile methodology in the Data/AI cluster
— Completed a research project in natural language processing (Spacy, BERT, StanfordNLP) for entity recognition and automatic summary
- January – June 2018 **Studio Cercle Rouge Paris Sound Engineering Assistant**
— Produced music with two well-known French producers who specialize in film score
— Set up recordings, helped mix the sounds, contributed ideas in the project

Technical Skills

Languages Python, C++, LaTeX, Rstudio, Rust, SQL, IML, Scilab
Libraries PyTorch, TensorFlow Keras, Spacy, StanfordNLP, Magenta, Cuda
Methodology, Worktools Agile SCRUM, Trello, GitLab, GitHub, Slack
Cloud Docker, Spark, Azure Server, Wordpress
Software Microsoft Office, Adobe, Ableton, ProTools

Education

- 2020-2021 **IRCAM (Research Institute for Computer Music and Acoustics) MSc ATIAM, Paris.**
Focus : Machine Learning : GANs, Variational Autoencoders, data generation methods in Latent Space.
Signal Processing : Mel algorithms, Klapuri method, source separation. Acoustics : Perception, HRTF, 3D sound, hearing aid, instrument synthesis, impulse response synthesis for reverberation and room acoustics.
- 2018-2020 **École Polytechnique and Sorbonne University MSc Mathematical Modelling and Machine Learning.**
Focus : Mathematical Methods in Biology, Stochastic Calculus, Mathematical Methods for Neurosciences, Cloud Computing, ML and Neural Networks, GPU Based Parallel Programming.
- 2014-2017 **Sorbonne University and UPMC Bachelor in Applied Mathematics (Graduated with honors), Paris.**
Focus : Statistics, Probability Theory, Partial Differential Equations (Python) Statistical computing in Rstudio, C++

Awards, Achievements and Projects (click here)

- June 2018 **Data Scientist Competitor Frenchdata.**
— Competed to create the best predicted model that estimates the time lapse to sell an Emmaüs product.
— Placed 74th out of 350 data scientists 15 variables (coding on Python)
- April-May 2020 **Deep Learning Specialization Coursera.**
- August 2020 **Capgemini Hackathon - Innovative Medical App.**
— Achieved 2nd place with a Smart Medicine Mobile App

Language Skills and Interests

Languages French, English and Spanish (Working Proficiency), Chinese and Russian (Beginner)
Dance Breakdance (2007-2014), Cuban Salsa and Dance House (2016 – present)
Interests Acrylic painting, Music production, Vinyl collector