

Virgile Boulanger AUDIO AI ENGINEER

n Paris, France in linkedin.com/virgileb

Skills

Python, C++

ML: Pytorch, Tensorflow, ONNX Mobile: Swift, TFlite, CoreML

CLOUD & OPS

GCP / AWS Docker, Kubernetes Git / Gitlab ArgoCD, Grafana

Ableton Live Max/MSP **Processing** Adobe Creative Suite

Notion, Figma Office, Amplitude Google Workspace

French: mother tongue English: fluent German: basic knowledge Arabic: beginner

I am an experienced engineer in the field of audio & multimedia machine learning. I am passionnate about applying cutting-edge research to innovative products leveraging deep learning technologies.

Work experience

Head of Machine Learning - MWM, Paris

MARCH 2020 - JANUARY 2024

- Recruited and managed a 6 people engineering team
- The team covered a broad range of topics and modalities: audio, symbolic, image, video
- In charge of the Machine Learning R&D and product integration roadmaps
- Responsible for iOS and Web prototype development roadmap
- Developed MLOps tools & production stack : on-device and cloud-based inference
- Personal contributor to MIR, audio and MIDI generation topics

Machine Learning engineer - MWM, Paris

JULY 2019 - MARCH 2020

- R&D on audio Al topics: source separation, music transcription
- Development of the ML stack: data processing, training and inference pipelines
- Collaboration with the product team & development of demonstrators
- · ML integration support for mobile development teams

Machine Learning engineer - Musimap, Brussels

OCTOBER 2017 - JULY 2019

- · Development of MIR systems: music tagging, tempo detection, music structure analysis
- Setup efficient data processing and training pipelines for large datasets
- Supervised model QA with musicologists
- · Development of the AWS-based inference service

Research intern - Technische Universität, Berlin

FEBRUARY 2017 - AUGUST 2017

- · Worked at Audio Communication Group on music perception and recommandation
- Developed a music recommandation system based on emotions
- · Multi modal system merging audio features and lyrics analysis with NLP

Education

IRCAM, Université Pierre & Marie Curie, Telecom ParisTech

2016 - 2017

ATIAM Master of Science Acoustics, signal processing and computer science applied to music

Arts & Métiers ParisTech

2012 - 2015

Master's Degree in engineering Computer Science, Electronics, Mechanical Engineering

Leisure

MUSIC piano, drums, computer music, synthesizers, DJing EVENTS part of multidisciplinary collectives organizing events in Paris & Amsterdam SPORTS swimming, cycling, climbing

TRAVELLING