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Pierrick MADE

Computer engineer

Image processing, synthesis and analysis



Born : 19 / 09 / 1999

EDUCATION

Sept-2017 - Current
5 years

EPITA INTERNATIONAL - *Engineering school - 5th year* - Paris, France

- IT Engineering with all courses in English
- Specialized in Image processing, synthesis and analysis

Janu-2019 - June-2019
6 months

OXFORD BROOKES - *Computer science* - Oxford, England

- 6-month university exchange (Erasmus)
- Computer Science, Mathematics and Academic English courses

EXPERIENCES

Janv-2022 - Aout-2022
6 mois

STEADYSUN ----- Cloud detection and classification on 180° sky images
Image analysis internship Aim : Improve sunshine forecasts for a better management of solar energy (*Python, Pytorch, Bash*)

June-2021 - Febr-2022
8 months

GENERAL ELECTRIC ----- Research and improvement of breast cancer detection
End of study project Objective : adaptation of a neural network
Tools : *Python, TensorFlow, Pytorch, OpenCV, Bash*

Sept-2020 - Febr-2021
5 months

DXOMARK ----- Creation and automation of measurement protocols
IT internship Goals : Measure the touch screen quality of smartphones
Tools : *Python, C++, OpenCV, Robot controlling*

Sept-2019 - June-2020
1 year

EPITA ----- Teacher for preparatory classes (*OCaml and C#*)
Teacher Goals: - Creation of the courses and exercises
- Supervision and support of the students

June-2018 - Sept-2018
3 months

TIMELAPSE GO' ----- Implementation of an automatic photos processing and sorting
Image processing Internship Aim : Detection of blurred, unusable or obstructed images.
Tools : *Bash Shell, Python, SQL, AWS*

SKILLS

Computer Science

PROGRAMMING LANGUAGES

Advanced ----- Python / Bash / C / C++ / Java / C#
Good level ----- HTML/CSS / SQL / JavaScript
Basics ----- OCaml / LaTeX / PHP / R

TOOLS

Linux / Git / Shell / Docker / Visual Studio
Office / Imaging and AI tools / CUDA

Social

LANGUAGES

- French ----- Native
- English ----- TOEIC : 960/990
- German ----- Basics

ASSETS

- Organized & Proactive
- Autonomous & Respectful
- Motivated & Open-minded

PROJECTS

2021

IMAGE & VIDEO PROCESSING ----- Numerous projects in the field of computer imaging
Use of libraries such as Numpy, OpenCV, Scikit, ITK, etc. on color, hyperspectral or medical images (*C++ / Python*)
SYNTHESIS ----- Realistic rendering of water and 3D animations with the creation of a Raytracer, a Raymarcher and the use of OpenGL (*C++ / OpenGL*)
ANALYSIS ----- Machine learning projects (pre-processing, classification, segmentation and deep learning) (*Python / Scikit-learn / Keras / TensorFlow*)

2021

JPEG ----- Re-creation of the JPEG compression format (*Python*)

2020

CHESS ENGINE ----- Creation of an AI to play chess (*C++ / Python*)

2019

OCR ----- Optical character recognition software from scratch (*C*)

INTERESTS

- *Sports* : Ski (competition), Skydiving, Roller, Windsurfing, Hiking

- *Light engineer* (EPITA's music association)
- *Photography*