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Pierrick MADE

Research IT internship (Master's degree)
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

June-2021 – Febr-2022
8 months

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

Sept-2020 – Febr-2021
5 months

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

Sept-2019 – June-2020
1 year

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

June-2018 – Sept-2018
3 months

TIMELAPSE GO' – **Image processing Internship**
Implementation of an automatic photos processing and sorting
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

Git / Shell / Docker / Visual Studio / Office
OpenCV / CUDA / OpenGL / YOLO / Unity3D

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** – 4-person project of an AI to play chess (***C++ / Python***)

2019 **OCR** – Optical character recognition software from scratch (***C***)

2018 & 2021 **2 VIDEO GAMES** – A group project of 6 months and a VR game (***C# / Unity***)

2014 - 2016 **COMPETITIONS** – French computer science competition for students ***19th/31 000*** (***C++***)
Mathematics challenge of the academia in teams ***3rd/971*** & ***12th/1316***

INTERESTS

- ***Sports*** : Ski (competition), Skydiving, Roller, Windsurfing, Hiking
- ***Light engineer*** (EPITA's music association)
- ***Photography***