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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

Janu-2019 - June-2019  
6 months

**EPITA INTERNATIONAL** - *Engineering school - 5<sup>th</sup> year* - Paris, France

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

**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

Human

### LANGUAGES

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

### ASSETS

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

## PROJECTS

2021

**IMAGE & VIDEO**-----Various group projects on videos and images

**PROCESSING**-----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 engine and 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 *19<sup>th</sup>/31 000* ( *C++* )  
Mathematics challenge of the academia in teams *3<sup>rd</sup>/971* & *12<sup>th</sup>/1316*

## INTERESTS

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

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