KEERAN PAHEERATHAN

COMPUTER VISION ENGINEER

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SKILLS

- Python (Jupyter, SciPy, NumPy, Matplotlib, scikit-learn)
- Tensorflow / Pytorch
- Neural Networks (CNN / RNN/ LSTM)
- Image Processing
- Point Cloud Processing
- ML Algorithms
- High and Low level Computer Vision
- C/C++
- JavaScript | NodeJS | Express
- Git | Github

PROFESSIONAL EXPERIENCE

SOFTWARE ENGINEERING INTERN | FEBRUARY 2022 – JULY 2022

INRAE | TOULOUSE, FRANCE

- Registered the point clouds from the three 2D LiDARs of the Phénomobile | The Phénomobile is a robot used to study plants in a field
- Developed a point cloud segmentation method using Deep Learning to isolate plant organs in the case of sunflowers with an mIoU of 74% and an accuracy of 88%
- Resulted in a new automated way to measure the diameters of sunflower capitula

ASSISTANT SOFTWARE ENGINEERING INTERN | SEPTEMBER 2020 – FEBRUARY 2021

H3DYNAMICS | SINGAPORE (REMOTE)

- Led design and implementation of an automatic masking program for windows in buildings permitting the company to use their software in residential buildings
- Implemented the automation of raw datasets cleaning to simplify their use in future software
- Implemented Backend REST APIs in JavaScript to simplify the use of software made by the company

PROJECTS

CAR MAPPING	MAP CREATION USING SENSORS ON A CAR
POINTCLOUD ANNOTATION TOOL	A TOOL TO ANNOTATE POINTCLOUDS
GENERATIVE ART	AUTOMATED ART CREATION USING PYTHON

EDUCATION

MASTER'S IN COMPUTER SCIENCE | SEPTEMBER 2019 – SEPTEMBER 2022

UNIVERSITÉ DE TECHNOLOGIE DE BELFORT-MONTBÉLIARD

- Algorithm and programming in C
- OOP in C++ and Java
- Computer Generated Image
- Classic Computer Vision techniques
- Deep Learning for Computer Vision
- Mathematics for Image Processing

CPGE PTSI | SEPTEMBER 2017 – JUNE 2019

LYCÉE LES EUCALYPTUS

Two-year undergraduate intensive course in mathematics and physics

LANGUAGES

- French | Native Language
- English | C1 (Proficient)

PERSONAL INTERESTS

- Drawing
- Movies
- Learning languages
- Video Games
- Tech