

# Yannis FERHAOU

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## EDUCATION

### University Claude Bernard Lyon 1

*Master's in Computer Science, Image, Development, and 3D Technologies*

Villeurbanne, France

*September 2023 – Present*

### University Claude Bernard Lyon 1

*Bachelor's in Computer Science*

Villeurbanne, France

*September 2020 – July 2023*

### Lycée Blaise Pascal

*Scientific Baccalaureate*

Charbonnières-Les-Bains, France

*September 2016 – July 2019*

## EXPERIENCE

### PHP/Symfony Developer

*AMS Association Mantes Solidarité*

May 2023 – June 2023

*Mantes-La-Ville, France*

- Added multiple features:
  - \* Payment form.
  - \* Donation management interface for administrators.
- Regular presentation of work progress.
- Collaborative teamwork.

## PROJECTS

### Deep Learning for Image Generation | *Python, Pytorch, OpenCV*

October 2024 – November 2024

- Introduction to Pytorch for convolutional neural networks.
- Reproduced images based on a dance video.

### Medical Imaging Research | *Python, Tensorflow, Keras*

January 2024 – June 2024

- Automatic segmentation of the diaphragm.
- Deep learning with Transfer Learning techniques.
- 3D reconstruction of organs.

### LEGO Robots Retrieving Balls | *C++, EV3Dev, OpenCV, Git*

February 2024 – June 2024

- Programmed in C++ using the EV3Dev library.
- Used OpenCV for image processing.
- Combined 4 cameras to create an overhead view.

### Drawing Prediction Website | *Python, Tensorflow, Keras, Flask, Git*

February 2023 – April 2023

- Explored deep learning for image classification.
- Used Tensorflow for architecture design and training.
- Displayed top 3 prediction percentages.

### Turn-Based Fighting Game | *C++, SDL2, Git*

February 2022 – April 2022

- First project in game design and development.
- Coded in C++ using the SDL2 and JsonCpp libraries.
- Implemented both battle mode and story mode with map exploration.

## SKILLS

**Languages:** C/C++, Java, Python, Matlab, SQL (Postgres), JavaScript, HTML/CSS

**Frameworks:** OpenCV, OpenGL, SDL2, QT, Symfony, Django

**Developer Tools:** Git, Docker, VS Code, QT Creator, PyCharm, IntelliJ

**Libraries:** Tensorflow, Keras, Pytorch, OpenCV, OpenGL, SDL2, NumPy, Matplotlib, Flask