

# Yanisse 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

### AI research internship

*Institut Pascal - University Clermont Auvergne*

Topic: Language model integration in 3D Slicer.

February 2025 – July 2025

*Le Puy-en-Velay, France*

- State of the art of research relevant to our problem.
- Implementation of the chosen solution.
- Development of a 3D Slicer module integrating the trained language model.
- Possible publication of an article in the Journal of Open Source Software.

### PHP/Symfony Developer

*AMS Association Mantes Solidarité*

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

May 2023 – June 2023

*Mantes-La-Ville, France*

## PROJECTS

### Mesh and computation geometry | C++

- Elementary operations on triangular meshes (triangle split, edge flip).
- Implementing Lawsons' algorithm to obtain a "Delaunay" mesh.
- Transforming a point cloud into a triangular mesh.

October 2024 – Present

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

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

January 2024 – June 2024

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

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

February 2024 – June 2024

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

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

February 2023 – April 2023

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

- 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.

February 2022 – April 2022

## 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