

Yanisse FERHAOUI

+33 7 82 79 99 67 | yanisseferhaoui@gmail.com | [Linked'in](#) | [GitHub](#) | [Portfolio](#)

SKILLS

Programming languages: C/C++, Python, Java

Libraries: OpenMP, OpenCV, OpenGL, SDL2, Qt, Pytorch, Tensorflow, Keras

Version management and CI/CD: Git, GitLab CI, Github Actions, Jenkins

Developer Tools: VS Code, Qt Creator, JetBrains IDEs, Docker, CMake, GoogleTest

Languages spoken: French (native), English (professional), Spanish (basic)

EDUCATION

University Claude Bernard Lyon 1

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

Villeurbanne, France

September 2023 – September 2025

University Claude Bernard Lyon 1

Bachelor's in Computer Science

Villeurbanne, France

September 2020 – July 2023

EXPERIENCE

AI research internship

Institut Pascal - University Clermont Auvergne

February 2025 – July 2025

Le Puy-en-Velay, France

Topic: Language model integration in 3D Slicer.

- Explored and implemented the integration of LLMs into 3D Slicer.
- Trained deep learning models on multi-GPU setups.
- Development of a 3D Slicer extension who integrates the trained LLM.

PHP/Symfony Developer

AMS Association Mantes Solidarité

May 2023 – June 2023

Mantes-La-Ville, France

- Integration of a payment form and implementation of a donation management interface for administrators.

PROJECTS

Mesh Viewer | C++, Qt

September 2025 – Present

- Developed a 3D visualization tool supporting multiple mesh formats (.off, .obj, .txt).
- Implemented export functionalities to save meshes in the same formats.
- Support for adding textures when the object allows it.
- Continuous deployment with Gitlab CI.

SlicerGPT | Python, Transformers, Qt

March 2025 – Present

- 3D Slicer extension that integrates a local AI chatbot.
- Provide context-aware help using your scene and official documentation.

Mesh and computational geometry | C++

October 2024 – December 2024

- Laplacian operator and curvature calculation of a mesh.
- Elementary operations on triangular meshes (triangle split, edge flip).
- Implementing Lawsons' algorithm to obtain a "Delaunay" mesh.

Geometric Modeling | C++, Qt

October 2024

- Implemented 3D surfaces of revolution using Bézier and Hermite cubic spline curves.
- Developed geometric primitives, transformations, and operations to model complex shapes.

Medical Imaging Research | Python, Tensorflow, Keras

January 2024 – June 2024

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