Mael RIOS

22 years old
French
Paris

Languages

English
Fluent Speaker

French
Native

Spanish
Native

Coding Skills

C# et C++

Development of games with Unity and Unreal Engine, rendering with OpenGL, and UX/UI with QT.

Git (Gitlab / Github)

Mastering of Git's versioning system

Java

Android Studio development.
Role Playing Game project in Bachelor's Degree.

Python

Sklearn, pandas, pytorch, and essential tools for data analysis.
Decision tree project in Master's Degree.

mySQL, SPARQL, JSON, XML

Semantic Web, Databases, RDF.

Interests and Achievements.

Video Games development with Unity and Unreal Engine , rendering with Blender and OpenGL.

Robotics
Seven years of study and practice, with multiple participations in robotics and programming competitions.

Competitive Rock Climbing
Six years of managing and establishing the rock climbing club at my former high school, participating in competitions including the Coupe de l'X.

Six Years of Theater and Improvisation.
Admitted to the Cours Florent Examination

3D/VR interactive development and Machine Learning Internship

Seeking internship opportunities as part of my engineering degree from Télécom Paris, specializing in interactive systems and graphic rendering as well as data science and machine learning.

Education

Master's Degree in Engineering

Since September 2022 Télécom Paris Palaiseau, France
Second year of the engineering program at Télécom Paris. Specialization in **IGR: 3D and interactive systems** as well as **Data Science and Machine Learning**.
Projects:
- Development of a 3D game on Unity: Ecolife.
- Development of a 2D game on Unity for the Ludum Dare jam.
- SPH Simulation project with OpenGL.

Cycle Pluridisciplinaire d'Études Supérieures - Bachelor of Science in Computer Science.

From September 2019 to June 2022 Paris Sciences et Lettres Paris, France
Multidisciplinary Bachelor of Science from Paris Sciences et Lettres with a specialization in Computer Science at Paris Dauphine. Concurrently obtained the **IM2D degree in Data Science** from Paris Dauphine.

Bachelor of Engineering Sciences

From September 2017 to June 2019 Lycée Franco Mexicain Mexico City, Mexique
Graduated with high honors (19.6/20) from the **Baccalauréat in Engineering Sciences**.

Internships and Profesional Experience

First year 3D development and robotics internship

From July 2023 to September 2023 Learning Robots CEA Saclay
Developed a 3D simulator on Unity to replicate the activities of the AlphAI robot by Learning Robots. Responsible for managing communication between the Learning Robots API and the simulator and all Physics Engine regulations.

Assisted in the development of an online Python MOOC.

Since October 2022 France IOI Télecom Paris, Palaiseau
Beta tester for an introductory web-based Python MOOC with France IOI and Télécom Paris, and assisted in the development of the MOOC. I was responsible for creating exercises, audio presentations using the CodeCast tool, and fixing bugs and errors in the software.

Machine Learning Research Internship

From February 2022 to June 2022 MILES, Unité de Recherche Lamsade Université Paris Dauphine
Topic: Study of **robust defense guarantee against adversarial attacks via 'Randomized Smoothing'**. Included research paper review and implementation of neural networks using Pytorch, supervised by Mr. Raphael Ettedgui, culminating in an oral defense and written dissertation.

First Research Internship

From February 2021 to June 2021 Laboratoire de Recherche d'Informatique du LIP6 - Unité Systèmes Multi Agents (SMA) Université Sorbonne Jussieu, Paris
Topic: Implementation of **attribution methods (Python) and study of core-compatibility** in housing markets.
Research Internship supervised by Mr. Nicolas Maudet and Ms. Aurélie Beynier, including a written report and an oral presentation.

Tutoring Experience

Scientific Tutoring for Scholar Guidance Assistance

Since December 2022 Programme #GENIUS Institut Polytechnique Palaiseau, France
One hour of tutoring per week dedicated to high school students, including the organization of:
- General scientific culture classes.
- Study methodology courses.
- Information and guidance sessions (Parcoursup) for higher education

First Year's Bachelor's Degree Tutoring

From September 2020 to January 2021 CPES, Paris Sciences et Lettres Paris, PSL
Two hours weekly of physics tutoring at Paris Sciences et Lettres.