Software engineering internship - Radiological AI copilot
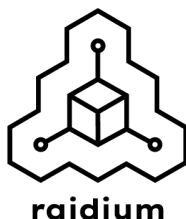
raidium

Summary

Job description	[Link](#)
How to apply	Send an email with a CV to careers@raidium.eu
Location	Paris
Job type	Intern
Job title	Software engineer - Radiological AI copilot
Salary	1600€/month
Start date	September 2024

The company:

Raidium develops a radiological foundation model as the "GPT" of radiology ([manifesto](#)). This new generation of AI will enable the building of an imaging biomarker factory for both clinical practice and research, tackling the complexity of precision medicine.

The team:

The founders:
Paul Herent is a radiologist, ancien interne des hôpitaux de Paris, Cogmaster (ENS) and PSL alumni, and has contributed to more than 9 publications focused on using deep learning in a radiological context. Paul conducted the first French medical thesis on the use of AI in radiology.

Pierre Manceron, a Centrale Paris engineer specialized in Applied Mathematics and Machine Learning with the MVA master, is a former team leader and manager of multi-million dollar projects. He specializes in the application of Machine Learning to industrial products.

The R&D team
The R&D team is composed of six ML engineers, educated at top French engineering schools with ML and Medical backgrounds (experience at Meta, Cardiologs, and Owkin, PhD in academic laboratories).

# The internship - Radiological AI copilot based on Foundation Models

In this internship, you will integrate Raidium's advanced foundation models in Raidium's product. You will be working with the Raidium R&D team, alongside software engineers, but also ML engineers.

This involves:
- **Full Stack Development**: Implement a functional product that deals with radiological images
- **Machine Learning Integration**: Collaborate with ML Engineers to integrate advanced ML/Deep Learning models into the platform, ensuring performance and ease of use.

You will work in direct supervision of Raidium's lead ML and Software engineers.

In practice, you will work in Raidium's Parisian offices (in the Cochin Faculty) and have the opportunity to spend some afternoons at our companion center, where radiologists work with CT scans and MRIs!
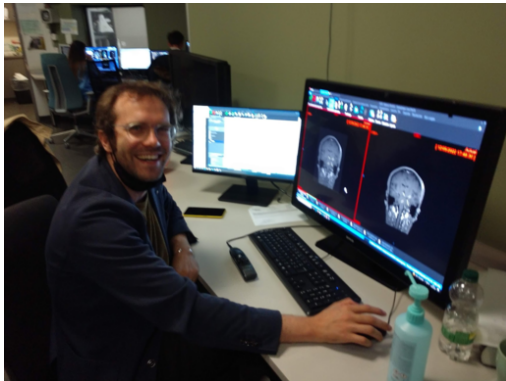
When we're not developing the Raidium product, we're in the radiology department of our partner or discussing with the healthcare in the FHU MOSAIC in the Beaujon Hospital

You:

- Pursuing Master's degree in Computer Science, Software Engineering, Applied Mathematics or a related field.
- Proficient in full-stack development, with modern programming languages (e.g., Python, JavaScript), frameworks (e.g., React) and databases systems.
- Willingness to work in the healthcare industry
- Authorization to work in France
- Fluency in English, with excellent communication and teamwork skills

Pluses (not required!):
- Knowledge of machine learning concepts and experience integrating ML models
- Experience with image manipulation libraries
- Experience with cloud providers (GCP, AWS, Azure)
- Experience in an agile work environment
- Experience with containerization and orchestration tools such as Docker and Kubernetes
- Knowledge of performance-oriented technologies (ex: rust)
- Knowledge of model serving technologies (ex: ray, CUDA)) and parallelization on GPU clusters
- Experience with Radiological images (DICOM, nifti)

Don't hesitate to apply, we're building the team and don't expect everyone to have expertise in every area.

Why join us:
- Have a real and positive impact on people's lives
- Apply and improve the latest Deep Learning technologies to build an inspiring product
- Be in contact with radiologists in our partner center
- Be among the first employees of Raidium
- Work with a team of internationally recognized experts
- Work with a diverse team of engineers and medical doctors
- Competitive salary
- Access to premium computing hardware

If you're interested, send an email and a CV to careers@raidium.eu !