



AVATAR MEDICAL

Junior Developer Internship

Paris, France + Partially Remote

AVATAR MEDICAL SAS is an exciting new MedTech start-up that radically enhances the manner in which surgeons prepare their surgeries.

Based on technology developed at the **Institut Pasteur** and **Institut Curie** (<https://diva.pasteur.fr/>), **AVATAR MEDICAL** uses advanced image processing algorithms coupled with virtual reality (VR) to transform medical images (e.g. CT-scans, MRI) into lifelike patient avatars. This vehicle grants surgeons an excellent understanding of their patients' pathology via an immersive and interactive VR experience. Our technology is meant to facilitate communication between radiologists and surgeons, allowing a more efficient and rapid surgical planning. Our technology has been recognized with numerous scientific and medical journal publications and **AVATAR MEDICAL** is a laureate of the prestigious BPI i-Lab Competition for innovative startup companies.

AVATAR MEDICAL's leadership team consists of passionate French and American co-founders with proven experience in tech entrepreneurship, sales, marketing and scientific research. Our technology, being commercialized between France and the USA, is developed by a talented team of physicists and software engineers who work closely with the **Decision & Bayesian Computation Laboratory** at **Institut Pasteur** (member of the **Paris Artificial Intelligence Research Institute, PRAIRIE**) and the **Breast Cancer, Gynecologic Cancer and Reconstructive Surgery Unity** at the **Institut Curie**.

We are recruiting **Junior Developer Interns** to join our technology team in 2021 to boost our development efforts. These efforts will coincide with the rollout of our first clinical product. Specifically, the successful candidate will have the opportunity to undertake one of the following topics depending on their experience:

Front-End Design
Volume Rendering
Image Processing
Mobile Development

This internship is a unique opportunity to contribute to a truly multidisciplinary project combining **medicine, image analysis, machine learning** and **gamification/serious gaming** approaches in an inspired effort to greatly improve the surgeon's work flow at the hospital. The internship is targeted towards Master-level students in software engineering, computer science or related discipline.

Roles

- Apply user-centered design principles to new and existing interfaces, algorithms and features
- Take into account feedback from medical users in the development of specific features
- Prototype, test and verify new developments
- Document project management process (requirements gathering, design, testing, verification)
- Present and defend design options to team members and during code reviews
- Work closely with developers in the implementation of new features and interfaces
- Identify, troubleshoot and resolve issues



Required Qualifications

- Experience with Unity (Unreal Engine 4 experience is also appreciated)
- Object-oriented programming experience (C, C++, C#, etc.)
- Ability to work well in a team environment
- Ability to perform well in a fast-paced environment
- Proficiency with code versioning tools such as Git

Nice-to-Have Qualifications

- Front-end development experience (e.g. video games, web, mobile, etc.)
- Knowledge of image processing
- Game development experience
- XR development experience
- Mobile development experience (iOS, Android)
- Bilingual English/French

Contract Type

Internship (6 months)

Contrat d'apprentissage (6 months)

Location

The position will be located at Institut Pasteur (25-28 rue du Docteur Roux, Paris, France) and will involve occasional travel abroad including to the USA.

Remote Working

In light of the COVID-19 pandemic, the position will be partially remote depending on the sanitary situation in the Ile-de-France region.

Recruitment Process

The successful recruitment process will take place as follows:

1. Selection for a first informal interview with the CTO
2. Selection for a second technical interview with the CTO
3. Interview with the CEO
4. Job offer

Contact

Please contact jobs@avatarmedical.ai with your

- CV
- Cover Letter
- Link to your personal code repository (e.g. GitLab, GitHub)
- 2 References