Job Reference SE_2017

Big Data Software Engineer

Description

The DIVA project aids scientific users in the interpretation of their imaging data using virtual reality (VR) and augmented reality (AR) environments. This multidisciplinary project is localized between the research teams of Maxime Dahan (Institut Curie) and Jean-Baptiste Masson (Institut Pasteur).

We have an open position for a motivated software engineer to assist in our development efforts. The successful candidate will contribute to the integration, optimization and testing of backend components of our software platform. Specifically, the candidate will focus on the treatment, compression, and organization of large volumetric imaging data. Accordingly, experience in image processing is desired for this role. The ideal candidate must be familiar with modern programming languages and end-to-end software design.

The engineer will additionally contribute to the development of VR and AR frontend components and gain experience in user experience (UX) design. Furthermore, he or she will have the opportunity to work in a truly modern computational infrastructure at the Institut Pasteur and will have access to the newest VR/AR headsets and motion capture devices.

The engineer will work directly with the lead developer of the DIVA Platform. Beyond programming, the successful candidate should be willing to work in a highly interdisciplinary and collaborative scientific environment.

Past 2018, the objective will be the creation of a startup based on the technology developed by the DIVA project team. The successful candidate will have the opportunity to play an important role in this regard.

Requirements

Object-oriented programming experience (e.g. C++, C#, Java)
Scripting language experience (e.g. Python, R, MATLAB)
Image processing
Beginning-to-end software design experience

Nice To Have Experience

User experience design
Computer graphics
Machine learning APIs (e.g. TensorFlow, scikit-learn, MATLAB)

Duration

18–24 month CDD

Contact Information

Interested candidates should contact Jean-Baptiste Masson (ibmasson@pasteur.fr) and Maxime Dahan (maxime.dahan@curie.fr) with their CV with a brief motivation letter.