

Computer Vision Engineer

Job overview: EchoPixel is seeking a talented and passionate computer vision engineer to join a dedicated team of clinical specialists, software engineers, imaging experts, and stereoscopic visualization pioneers to help drive the development of next-generation AR / VR software for live imaging-based surgical planning and intervention. Frequent topics of interest include object detection / recognition, segmentation, human pose estimation and tracking, as well as morphological analysis and image registration. As a first-to-market solution, the EchoPixel True3D platform represents the new frontier of medical imaging, helping to embolden surgeons, optimize clinical workflows, and improve patient outcomes.

What you'll be doing:

- Actively engage with clinicians, product managers, field specialists, and other software engineers to develop and validate high clinical impact computer vision applications - from early concepts and prototypes through commercialization and deployment
- Pursue high-impact publications and patent filings
- Author technical documentation
- Support QA in developing test plans

Required qualifications:

- M.S., Ph.D. or equivalent experience in computer science, computer vision, computational imaging, electrical engineering, or related field
- Proficiency in C++ programming, including object-oriented design, data structures, and algorithms
- Proficiency in Python or other languages commonly utilized for rapid prototyping and algorithm development
- Experience with common vision and machine learning frameworks and toolsets such as TensorFlow, OpenCV, Caffe, etc.
- A record of successful machine vision product development
- Strong time management, prioritization, teamwork, and interpersonal skills
- Experience developing and following engineering requirements and specifications
- Excellent verbal and written communication skills

EchoPixel cannot sponsor applications for work visas at this time

Nice to have:

- Experience working with volumetric image data
- Knowledge of medical imaging concepts and standards such as DICOM
- Knowledge of AR / VR concepts and platforms
- Experience with CUDA or other general purpose GPU programming models
- Experience training / deploying machine learning and computer vision models in cloud environments
- Experience developing software in regulated environments for medical applications
- Familiarity with the medical device lifecycle

About EchoPixel

EchoPixel's True3D platform is the first interactive mixed reality software platform for improved surgical imaging that facilitates more precise and personalized surgical planning. True3D enables physicians to interact with medical images (such as standard DICOM CT, MR, echocardiography and C-Arm fluoroscopy) the way they would with physical objects in the real world. Holographic-like images of organs, blood vessels and other structures allow physicians to rotate, re-size, dissect, and create virtual patient-specific surgical views.

EchoPixel Inc, is an equal opportunity employer

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