

Front-End Software Engineer (Image processing)

We're a Berlin-based medtech startup dedicated to building AI-powered software that supports radiologists with their daily work: Analyzing medical images. Our first app "md.Brain", which helps identifying Alzheimer's and multiple sclerosis, is already certified as a medical product regarding ISO 13485 and thereby ready for market launch.

This year, we want to extend our product range to detect and diagnose a larger variety of medical conditions from image data. Crucial for our success is a seamless interaction of our software with the radiologists: This will not only take customer satisfaction to the next level, but also help us to collect annotated data, which is the basis of our machine learning models. We're therefore looking for **an experienced front-end engineer with an emphasis on image rendering / processing** to support us in creating efficient and user-centric UIs for our apps.

Why should you apply

- Our vision has a purpose: Your work will help to make the diagnose of medical conditions faster, more accurate and more accessible
- You will have the opportunity to work on impactful, interesting and complex front-end problems (like building graph-cut and region growing algorithms for 3D image segmentation) and not just changing the size of a button
- You will join a highly interdisciplinary team of motivated and highly collaborative data scientists, engineers, UX-designers, physicists and medical doctors with rapid decision-making processes
- Responsibility: You will play the key role in shaping our front-end infrastructure from the ground up
- You will be working with a modern docker-based software architecture

Your tasks

Your main task is to make the results of our AI accessible to our customers.

- You will build a browser-based UI that integrates all results of our AI software like medical images overlaid with 3D segmentations, diagnostic proposals and structured information about biomarkers. The starting point of your work will be a customer journey analysis by our UX specialist.
- You will create a tool for viewing and annotating medical 3D images specifically designed to make the workflow for radiologists as efficient as possible. This includes the development of various image segmentation tools to speed up the annotation of 3D regions.
- When developing solutions, you will have the needs of our stakeholders in mind: For radiologists, efficiency and ease of use are key aspects.

Your profile

- 3+ years of work experience in front-end development
- Degree in Engineering, Computer Science, Math, Physics or a related field
- You enjoy building robust, fast and beautiful UIs
- You have experience with react.js or vue.js, CSS and HTML5
- You know the basics of linear algebra, e.g. for calculating image transformations in 3D
- You know how REST APIs work and how to query data from sql and no-sql data bases
- You have solid engineering skills: You value clean code, unit testing and continuous integration, and you know best practices and established UI patterns

Nice to have:

- Some experience with (medical) image processing in the browser using e.g. WebGL, itk.js or cornerstone.js
- Experience with DICOM/nifti viewers such as MITK
- Experience with optimizing javascript code
- Experience with python
- Experience with UX-design

Our current tool stack

react.js, sketch, python (flask, jinja2), docker, AWS, gitlab CI, mongoDB, SQLite

If you're interested in joining us, please send your CV and some words why you would like to work for mediaire to our Head of Software Development Pere:
p.ferrera@mediaire.de