

Software Engineer - Machine Learning Integration

Permanent Contract

Your next challenge could be to interface cutting-edge deep learning algorithms with a web service to provide physicians with the best possible technology for automatic breast cancer detection right at their fingertips.

Context

[Breast cancer](#) is the most frequently diagnosed cancer and second cause of cancer death among women. In most countries all women beginning from a certain age undergo regular mammography screening exams to detect cancer as early as possible. Whereas this demands a large number of radiologists to analyze all the images, a lot of countries are missing experienced breast radiologists.



1 in 8 women affected during her lifetime



For every 1000 women screened, 5 are likely to have breast cancer.
But 100 will be recalled for further testing.

↓
We do better!

[Therapixel](#) is a spin-off from Inria created in 2013, specialized in medical imaging with 13 employees. We are renowned for winning the [Digital Mammography DREAM Challenge](#) [1,2], a world-wide competition organized to improve the state-of-the-art in automatic mammography screening. Recently, we successfully closed a 5M€ series-A fundraise to accelerate the development of a product for improving breast cancer screening.

Job description

You will join the development team and strengthen it with your expertise in web service and web front-end development. Concretely, the job consists of:

- Designing and implementing front-end and cloud-based solutions for a seamless integration of a deep learning model in the physician's workflow (from image retrieval to the display of results);
- Becoming a key member of the development team, discussing and suggesting ideas, sharing knowledge, reviewing / evaluating the work of the other team members;
- Working within an ISO13485-certified company with AGILE methodology, continuous integration and a lot of testing;
- Prototyping and testing new ideas, analyzing and interpreting results. Learning and testing new technologies;
- Interacting with the research team to bring research results to the market.

Technical stack

- Frontend: HTML, CSS, JS (ES2017)
- Backend: Node.js, Typescript
- Database: PostgreSQL
- Other tools: Git for version control, Jenkins for CI/CD

Why work at Therapixel?

- Become part of a renowned team; learn from the best, but teach them too – we're curious and eager to learn from you!
- Make sure your work will have a longstanding and positive impact on healthcare;
- Work in a collaborative environment: we have team members dedicated to research, regulatory affairs (FDA/CE), and clinical partnerships!
- Multiculturalism is in our DNA: we have people from UK, Italy, Bulgaria, Russia (and France). English is our primary language.
- And most importantly: have fun doing what you excel at!

Candidate description

- 2 years+ of experience in full-stack development
- Experience with our technical stack and in cloud architectures
- Good knowledge of C++ would be a plus
- Specific interest for medical applications
- Good oral and written English skills

Modalities

Contract type	Permanent Contract (CDI)
Location	Sophia Antipolis (Alpes Maritimes) or Paris, with remote-working options.
Benefits	36 days of paid holidays, sponsored cafeteria on-site, health insurance, sport subscription
Salary	Competitive and negotiable, based on experience

How to apply

Please send your resume, motivation letter, and any material showing your achievements to jobs@therapixel.com by including [**job-dev-ml-int**] in the subject.

Join Therapixel – help build the medicine of the future

References

- [1] DM Challenge Yaroslav Nikulin (Therapixel) write up : <https://www.synapse.org/#!Synapse:syn9773040/wiki/426908>.
[2] Therapixel Press Release <https://goo.gl/BSG6rZ>

