

Software Engineer

Nodejs + python. Full time. Barcelona, Spain



We are Zoundream, a dynamic, growing startup, developing the world's most advanced technology for infant cry analysis, using AI and sound recognition.

Our team has a strong background in machine learning and embedded systems, a mature core technology that we are continually improving upon, and an award-winning product based on it. We are now in the process of developing the next iteration of this product, which is based on a cloud-based service.

We are looking to expand our team with a software engineer that can mainly support us in maintaining and improving our internal systems, as well as play a role in the development of the next major versions of our public-facing cry analysis service.

At Zoundream we try to use the best tool for any given job. As such, we need someone who has a polyglot attitude to software development, and can display a lot of flexibility when it comes to switching between frameworks and projects and learning new tools.

What you will do:

- Help maintain and improve the internal tools that our analysts use to gain knowledge from the cry sounds and other medical data we receive from our customers and partners.
- Work with the clinical research team to create additional internal tools they need to facilitate their research efforts.
- Contribute to ensuring the quality of the software that powers our cry translation product. Participate in code reviews, report bugs, help increase and maintain tests coverage.
- Once a good understanding of the above public-facing product has been achieved, contribute to adding new features and fixing bugs.
- Contribute to ensuring that our organization's security practices meet GDPR and ISO 27001 requirements by always keeping in mind the security implications of the code we run.
- Work with the rest of the engineering team to help identify ways to reduce costs and improve performance while maintaining or increasing reliability and security.
- Constantly document your work and engage in knowledge transfer with the rest of the team.
- Help writing job descriptions and participate in interviews for hiring new staff. As our engineering team grows, your help in shaping it will be essential.

What you will bring:

- A good ability to dive into an existing codebase and find your way around in it independently and quickly. A talent for asking meaningful and focused questions when you need help and support. And once you know your way around and start adding your own code, being able to help to contribute comments and documentation for those that will come after you.
- A good amount of love for well tested software and good development practices. A willingness to help spread this enthusiasm to the rest of the development team.
- Confidence in your experience and expertise: you don't hold back in pointing out better ways of doing things whenever an opportunity arises to do so.
- An interest and willingness to help shape the direction of the company as it grows: you are interested in joining a small interdisciplinary team of people with different backgrounds, open to change and welcoming new perspectives on how to do things better, more efficiently and more pleasantly for everyone.

Tech Stack:

The main technologies we use that you will be required to initially work with are:

- **nodejs (js and typescript)** for most of the code for our backend services.
- **nodejs+express** backends with **vue2** frontends for some of our internal web apps.
- **python** for all our data science and machine learning related tools.
- **docker** to package and run most of the above

Additionally, we are running smaller projects using the following technologies. You may participate in development on these projects but it's not a priority:

- **kotlin** for the software that powers our Android devices used by beta testers and clinical research partners.
- **go** for load testing tools and other support apps.
- **c++** for a light version of some of our technology, meant for embedded devices

All our infrastructure runs on **AWS**, so some knowledge of the services that the platform offers and how to interact with them is beneficial.

What type of person you are:

- Proactive. Independent. Entrepreneur spirit.
Nobody will tell you day by day what to do.
- Curious, always willing to learn new things.
We're a startup: we do new things every day. And for most of them, we learn from scratch. You'll need to be able to do the same, and be comfortable with that.
- Structured. Able to read a project plan, and stick to agreed milestones and time.
No one in the team has the time to chase other people's timelines or deliverables. You need to be able to handle your own to-do list, time and resources.
- Fluent in both written and spoken English.
We are an international team. English is our day-to-day internal working language and the language we use to communicate with all our partners and customers. All our code is commented and documented in English.

What we offer:

- Becoming a key person, in the core business of a high-tech ambitious startup.
- New challenges, constantly. No single day will like the previous one.
- An extremely dynamic and innovative environment.
- Opportunity to really influence what the company does, day by day. We expect everyone to challenge and shape – all together – what we do.
- Full time employment, permanent role, company laptop.
- Salary range: 45.000 to 50.000 EUR/year gross + 20.000 EUR stock options.
- Office in coworking space Aticco Bogatell. Hybrid work policy: possibility to work from home on some days of the week.
- Relocation support if needed.