

Full Stack Web Developer

(Life Science / Biotech area)

CONTACT	Hugo LAULLIER hugo.laullier@cilcare.com +33 7 85 26 76 94
JOB LOCATION	Cilcare, 378 rue du Professeur Blayac 34080 Montpellier France
STARTING DATE	March/April 2026
CONTRACT TYPE	6-months or more Internship
MORE INFO	www.cilcare.com

About Cilcare

Founded in 2014 by a trio of visionary French women—Celia Belline, MS, Marie-Pierre Padelou, Pharm.D., and Sylvie Pucheu, Ph.D.—Cilcare has emerged as a pioneering biotechnology firm with a focus on auditory sciences. With its operational hubs strategically located in Montpellier, Paris, and Boston, the company has swiftly ascended to a leadership position on the global stage in the field of hearing science, exhibiting unique expertise in the preclinical and clinical evaluation of therapies for hearing. Cilcare's team is experienced with a track record of over 100 deals worldwide and is composed of highly qualified doctors and engineers with rare skills including electrophysiology, electroacoustics, histopathology, micro-surgery of the inner ear, biology, clinical research, data science, and Artificial Intelligence. Its scientific excellence is recognized globally by renowned Key Opinion Leaders, some of whom are part of its Scientific Advisory Board.

Cilcare's core mission is to forge groundbreaking solutions for individuals grappling with hearing disorders, considering hearing being not only the capacity to hear or understand speech but an entry point to global health that can play a key role in the era of a medicine increasingly integrating prevention in its fundamentals.

"At the core of our mission is the unwavering commitment to enhancing the lives of patients by safeguarding or restoring a fundamental sense: hearing. This pursuit is not merely a business objective; it embodies a profound public health imperative. Throughout every facet of our organization, we recognize the weight of this responsibility."

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Position Overview

We are seeking a motivated **Full-Stack Web Developer Intern** to contribute to the development of Cilcare's clinical data integration platform.

The intern will join the Data & AI team and participate in the development of a platform designed to centralize, standardize, manage, and analyze multimodal clinical data generated during clinical studies. Working within a multidisciplinary environment involving scientists, clinicians and data specialists, the intern will contribute to the continuous improvement and expansion of the platform.

The primary mission will focus on interoperability, including integrating new clinical devices into the platform. This involves extending the existing architecture to support various types of biomedical and clinical data, implementing data ingestion pipelines, ensuring compatibility with different device outputs and file formats, and contributing to the standardization and structuring of imported datasets. The intern will develop integration modules and contribute to annotation and visualization features, enabling efficient exploration and use of multimodal data.

In parallel, the intern will contribute to other aspects of the platform development, including backend services, database architecture, API development, and user-facing features. The intern will collaborate with the development team on feature implementation, testing, and documentation, while contributing to the overall robustness and scalability of the platform.

This position provides an opportunity to work at the intersection of software engineering, biomedical data, and clinical research, contributing to innovative tools supporting auditory and clinical studies.

Key Responsibilities

- Contribute to the development and improvement of Cilcare's clinical data integration platform.
- Implement and extend data ingestion pipelines to integrate data from clinical devices.
- Develop integration modules to support new device outputs and file formats.
- Identify relevant clinical devices whose data could be integrated into the platform.
- Investigate and document device data formats and export capabilities to facilitate integration.
- Obtain and analyze sample output files from devices to design and implement compatible data import modules.
- Ensure interoperability and compatibility between heterogeneous biomedical data sources.
- Contribute to the standardization and structuring of imported datasets within the platform.
- Develop and maintain backend services and APIs supporting data processing and platform functionalities.

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- Participate in the development of annotation and data visualization features.
- Contribute to database design and data models supporting multimodal biomedical data.
- Collaborate with scientists, clinicians, and developers to understand data workflows and platform requirements.
- Participate in testing, debugging, and documentation to ensure platform robustness and reliability.

Qualifications

We are looking for a motivated, curious, and rigorous candidate to support the development of Cilcare's clinical data integration platform. The ideal candidate should demonstrate strong problem-solving skills, an interest in biomedical data and digital health, and the ability to work in a structured and collaborative environment. A proactive attitude and willingness to learn in a multidisciplinary setting are essential.

Profile

- Master's degree (or final-year student) in Computer Science, Software Engineering, Data Science, or a related field
- Strong interest in web development and data-driven applications
- Experience with full-stack development and modern web technologies
- Familiarity with data processing, file parsing, or data pipelines
- Ability to work with structured and heterogeneous datasets
- Strong problem-solving skills and attention to detail
- Good organizational and communication skills
- Ability to work independently and collaborate with multidisciplinary teams
- Interest in the healthcare and clinical research field
- Fluent in English (working language); French is a plus

Technical environment

- Frontend: TypeScript, Next.js
- Backend: Python, Django
- Database: PostgreSQL (via Django ORM)
- Cloud: Google Cloud Platform (GCP)
- Version Control: Git / GitHub