THE RECRUITER'S GUIDE TO

One of the biggest buzzwords to take over the healthcare technology sector is FHIR®, an interoperability standard, and one of THE hardest skills to hire effectively for.

But what is FHIR®?

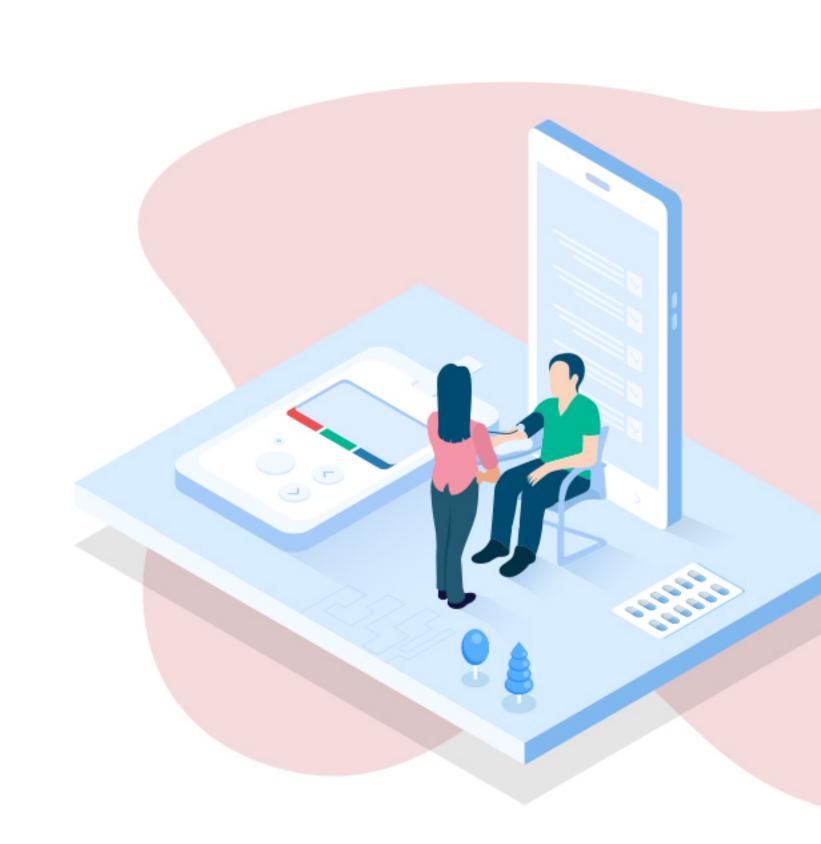
Why do you need it? And how do you go about hiring someone that can carry out the FHIR® framework for your healthcare business? In this guide, we'll give you everything you need to know to hire effectively for FHIR® roles.



What is FHIR®?

Essentially, FHIR® (pronounced "fire") is a standard for exchanging healthcare information electronically by using modern web technologies. It stands for Fast Healthcare Interoperability Resources and was developed by the standards body Health Level 7, or HL7 for short.

The basic goal of FHIR® is to improve the way health systems exchange information, to make this transfer fast, safe, and, most of all, easy for everyone involved to understand.





FHIR® data consists of discrete data elements, known as resources, and standard interfaces to create, read, update, or delete those data elements. Data that is exchanged represents content, including patients, procedures, medications, claims, and other resource types.

FHIR® has been around since 2014, but has only started gaining momentum recently. FHIR® is continuing to make progress in advancing healthcare interoperability by enabling health IT developers to build applications to exchange data using the web technologies they're familiar with, such as HTML, XML, JSON, and others, rather than the outdated HL7 clinical language.





HL7 is the earlier format that was, and still is, used in healthcare.

It was designed before the internet came into use, which makes it an outdated way to both store and exchange information.





The difference between HL7 and FHIR® is that HL7 only contains the data, or payload, while FHIR® contains both the payload and the structure, known as a template, of what the data should look like.

Two systems sharing data in HL7 may not be able to communicate if they both have a different understanding of what the data means. With FHIR®, two systems sharing data will always understand the data because FHIR® contains both the data and a definition of what the data is. This is called the Structure Definition in FHIR® and is a fundamental building block of the standard.

FHIR® is the improved, standardized way to accomplish the same goal as HL7, which is to bring healthcare up to date with data exchange technology.

3 use cases for FHIR®

Hospitals and healthcare practices have a variety of systems that require interoperability. From the bedside heart rate monitor to the health system's primary electronic health record, each of these systems need to be able to share data. Systems not only need to integrate within one institution, but also with other hospitals, ambulances, labs, and clinics.



The reasons a health system might need to implement FHIR® depends entirely on the needs of the business. There are 3 use cases that can help you decide why you need FHIR®:



Sending FHIR® from your system.

Your health system needs a software engineer to produce FHIR® files. A software engineer will be able to develop the backend service interfaces that can communicate with other systems. They can also develop backend APIs and web frontends that a clinician can operate.



Receiving FHIR® into your system.

Your health system requires a developer to read FHIR®. This requires someone to take the input of a FHIR® file, write a piece of software for it, and then use the FHIR® file. A developer that can write FHIR® can also write code to consume FHIR® files.



Designing a FHIR® interface.

Your health system needs two systems to integrate with each other. This could include integrating an Electronic Medical Record (EMR) with a Personal Health Record (PHR) to allow patients to access their own medical records. Essentially, the EHR needs to be able to communicate with the PHR. To connect the data in these two systems, a structure definition author needs to code and deliver a template that will hold the required information. This part of the process is doesn't call for a developer, but rather someone with the technical skills and business insights that knows what information is required in the template. Since the template is focused on business operations, it is a completely different process by this point.



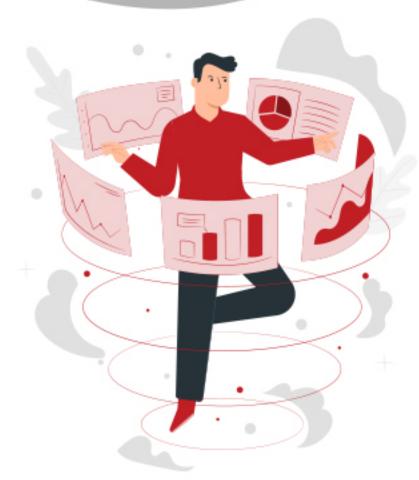
The importance of a good

FHIR® developer

FHIR® represents the future of interoperability and in order to stay ahead of the curve, your health system will need someone with this skill sooner rather than later. Before interviewing and hiring a FHIR® expert, it's important for recruiters and hiring managers to understand the significance of this position.

Considering that FHIR® is a niche skill, that the potential employee will be working on systems that handle sensitive patient data, and that healthcare integration is a costly endeavor, it's essential to make a good hire the first time.





Finding someone with this skillset can be like trying to find a needle in a haystack. Just because a developer has experience with FHIR® doesn't mean that they are the right hire. It's far more important to have the expertise rather than the experience. A regular developer or software engineer doesn't necessarily know the FHIR® language.

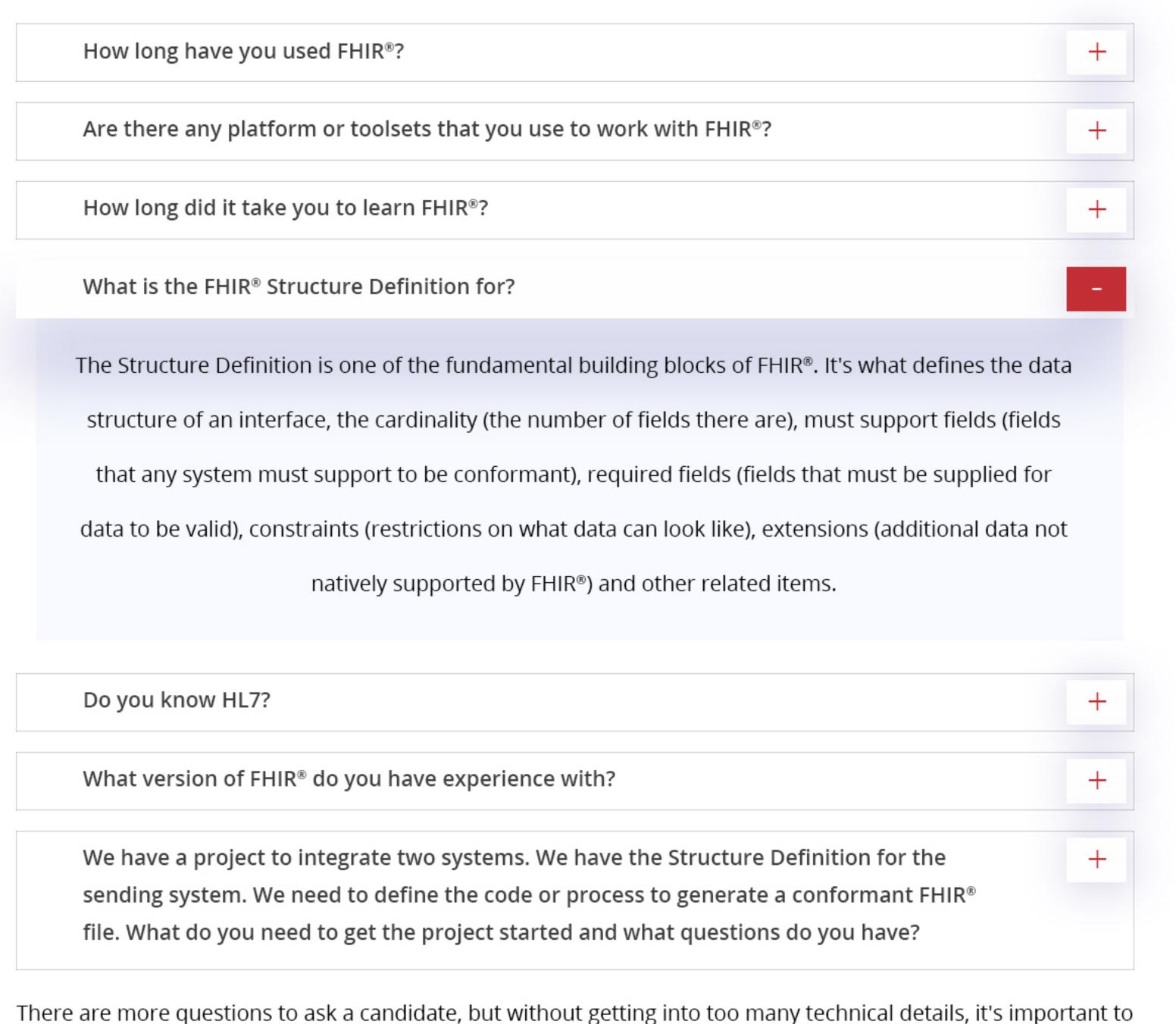
It's a niche skillset that requires focused and intensive training. It can take two months of in-depth study to truly learn the ins and outs of FHIR®. This high level of study will separate the good developers from the bad.



Having **quality developers** is more important than ever due to Covid-19, and lots of organizations are eager to integrate their systems with other distributing and caregiving systems, highlighting the need for systems to work together.

Interview questions to ask a FHIR® developer

Here are some simple yet effective questions about FHIR® for an interviewer to ask their candidates. While the questions might seem complicated for the less technically inclined, they are designed to help you weed out the good candidates from the bad.



separate those who know from those who don't. These questions will give you a great starting point and a candidate who can answer these basic but important questions is someone worth interviewing further.

Not confident you can size up a FHIR® expert? Let us do it for you.

DevStaff Canada has built healthcare teams that have worked on some of the largest projects globally, including Health Canada, the Department of Defense, and the government's response to Covid-19. Thanks to our extensive background in technology, we've implemented a rigorous candidate selection process that saves our client's time. If you're tired of wasting time with bad interviews, we're ready to help you find the crème-de-la-crème of the technology industry. Click the button below to learn more about our amazing staffing services.

