



Candidate brief for the position of
Web Application Developer
at DNAnalytics.

DNAnalytics contact

DNAnalytics S.P.R.L. (referred to as "DNAnalytics"), a Belgian-law company, with offices located Chemin du Cyclotron 6 in B-1348 Louvain-la-Neuve, Belgium, KBO/BCE 0844.973.235.

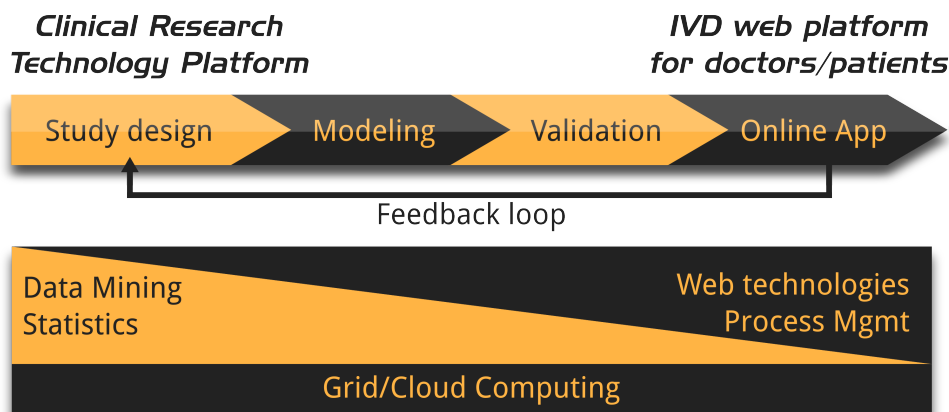
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1 The company

Company description – The healthcare sector is facing R&D and pharmaco-economic issues, while at the same time technological evolutions generate more and more medical data, and patients and society demand efficient, tailored therapies and disease management. In that context, DNAlytics aims at being the reference data-related solution provider for personalized and predictive medicine, from R&D to patients. In particular, DNAlytics performs data analysis at various levels of the customers development pipelines in order to design innovative diagnostic, prognostic and theranostic solutions. These analyses also cover automated biomarker identification. DNAlytics further provides IT tools to deploy those predictive solutions, namely over the web, directly to clinicians and/or patients, in full compliance with the highest quality standards and regulations.

New focus, new challenges – Launched as a technology platform at its inception in 2012, DNAlytics successfully operated on a service-provider mode so far. Recent developments within some of DNAlytics R&D projects led to the development of RheumaKit, an innovative diagnostic solution for patients with undifferentiated arthritis. This solution can be applied very early in the disease course, and its implementation is based on pluridisciplinary components: molecular biology, machine learning and cloud computing. The whole solution is delivered directly to the clinicians via a secured web application. DNAlytics intends to put this solution on the market in a very near future. This activity complements DNAlytics' service-oriented technology platform with a product-oriented offer. Future developments involve the development of other products working in a similar fashion as RheumaKit. Other web applications are also more and more developed in the context of our service activity. These new challenges require that web application development become at least partially internalized in our team. This is the topic of this job offer.



Key facts – DNAlytics is a startup that managed to build a strong business track record for the last 2 years in the field of data mining for personalized and predictive medicine:

- Founded in 2012 by Prof Pierre Dupont (UCL/EPL) and Dr Thibault Helleputte as a UCL Spin-Off.
- Diversified IP portfolio (proprietary computer code, clinical and genomic data, patent, ...)
- Working or has worked in various pathological fields (oncology, pain management, osteo-arthritis, rheumatoid arthritis, fibrosis, ...).
- Based in Louvain-la-Neuve, Belgium.
- Two years of positive results in a row for 2012 and 2013.
- Multiple awards: IBM, Microsoft, Mind&Market, EU Commission, FlandersBio, etc.

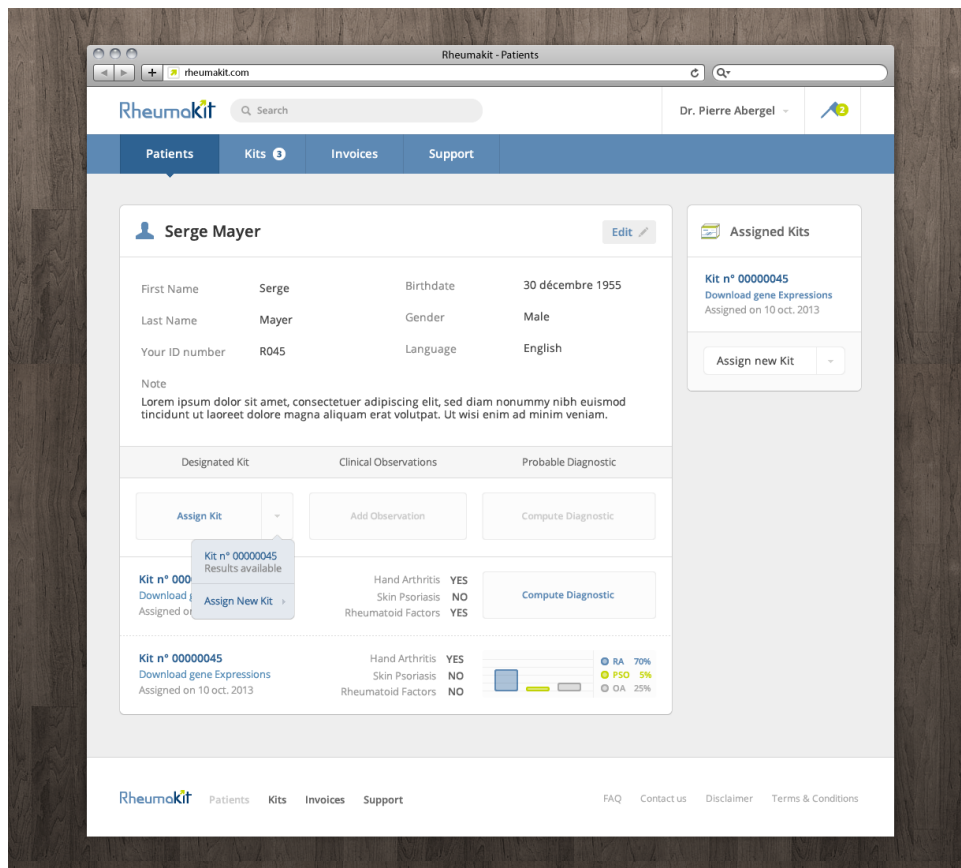
Vision – DNAlytics management has defined precise priorities to develop the company:

1. Finalize RheumaKit launch in Europe, strengthen its logistics and then extend it to other markets, while guaranteeing its compliance with the various legislations in place.
2. Develop next similar products target (likely in rheumatology, but not only), and integrate all products within a unified IT platform.

- Boost support to healthcare industry with respect to their health economics and R&D challenges via our data mining technology platform.

2 The role

Web Application Developer – The web application developer will be in charge of online application design, development, and maintenance in both service and product offers of DNAlytics. This mission first involves the finalization of RheumaKit development. In particular, the web application developer will start by extending reporting abilities of RheumaKit, working on its adaptation to mobile devices. Another specificity of the position is that DNAlytics products are subjects to CE-marking, as being considered as In Vitro Diagnostics. They also deal with very sensitive patients data. Quality, safety and reliability of the applications are thus a core concern for this position. The web application developer will have interactions with several external consultants/developers in those matters, and interact with the current DNAlytics R&D and product teams. This position could be from half-time to full-time.



Accountabilities/Responsibilities

- Works on RheumaKit platform finalization and adaptation to mobile devices.
- Works on Next generation products platform.
- Participate to the design of a more general framework regrouping RheumaKit and other products in a unified environment.
- Ensure virtual machines management on AWS and their likely communications with the web applications.
- Work on stand-alone small web applications for our service activity.
- Reports to DNAlytics' Product Director and DNAlytics' CEO.



Internal and external contacts

Internal contacts:

- Service/Data Mining team
- Product team
- Top management

External contacts:

- Customers (clinicians)
- Partners (CROs, Pharma/Biotech companies)
- A series of expert consultant (regulatory affairs, privacy commission, designers, other developers, etc.)

Corporate values – DNALytics defined several corporate values. Those concerning its collaborators are the following. DNALytics wants to develop a culture of **innovation**. It has a strong link with academia, since it is a Spin-Off of the Université catholique de Louvain. According to that specificity, we value **competency** and **lifelong learning** in our collaborators.

3 The candidate

The ideal candidate would have the following skills, expertise and competencies:

1. excellent knowledge in Ruby on Rails, HTML, Javascript,
2. excellent knowledge of object-oriented development and its good practices,
3. good knowledge of mobile application development,
4. notions of cloud computing, ideally experience with Amazon Web Services,
5. skills in communication and team working,
6. at least two years of experience as web application developer

Experience with highly regulated environments is a plus.

As it appears from the mission description, and given the fact that DNALytics is a small company, the candidate should have a taste for multi-tasking. Although no data-mining expertise is required for this position, the candidate will be very open-minded and willing to learn basics of scientific fields that might not be his/her primary expertise.

The candidate should be fluent in English, and at least one other European language.

4 Application process

This position offer a rare opportunity to directly participate to the on-going development of personalized medicine products, which is a clearly growing area. DNALytics is looking to appoint a highly skilled and motivated person with a good track record. DNALytics offers good packages including laptop, smartphone, health insurance, meal vouchers, etc.

To apply, the candidate should send an email to careers@dnalytics.com, with their resume attached.