Vacancy

Data engineer at Medical Credit Fund

Fulltime – based in Amsterdam

Job description

Are you excited about applying engineering to make loans accessible for small and medium sized health care providers in Africa? Ready to apply some of your technical and financial industry knowledge to pave the way for investments that improve the quality of care for millions of people? Working on leapfrogging innovations at a fast-pace, that test your creativity in finding new solutions that work as well in the 'cloud' as in supporting the real life setting of clinics in rural Kenya or Nigeria?

About PharmAccess and the Medical Credit Fund

At PharmAccess, we believe in doing health care better. We innovate and act as a catalyst for practical changes that can be scaled up to connect people to better care, starting in sub-Saharan Africa. To this end, we unlock the power of technology to introduce innovative financing mechanisms such as health insurance, digital lending and standards to assess and stimulate improvement of the quality of care. We are continuously introducing digital solutions that disrupt old ways of working in health financing and delivery. All with the aim to make essential quality care accessible for all.

Our way of working has led to many tested innovations and some successfully scaled interventions ranging from digitally based Health Insurance schemes that reach millions of people to the Medical Credit Fund which has disbursed over EUR 100 mln. in loans to health care providers. To date, this is the only fund in the world that is dedicated to financing small and medium-sized healthcare businesses in Africa. A need which importance has never been higher than in times of a global pandemic. Besides providing loans in collaboration with local partner banks, we innovate new products such as 'cash advance' – a digital loan that we provide directly via the mobile phone.

Due to its success, the Medical Credit Fund continues to grow to make more impact. To this end, we have just launched the second Medical Credit Fund this year with the aim to accelerate innovative digital lending products for health care providers. As the Medical Credit fund continues to grow, we have to make sure its architecture and data foundation evolve along with it in a solid (core lending system) but agile way (facilitating new lending pilots). Lots has been set in motion, but we are looking for a Data engineer with at least 3-5 years of experience to support driving this technical roadmap and transition together with a small but dedicated team.

The Position

All our innovations are powered and supported by the PharmAccess Data & Technology team (+-15 FTE). As a Data Engineer you will be part of this team of Data Engineers and Analysts who are passionate about leveraging the power of data to drive change. It's the homebase from where you will exchange best practices and coding jokes. As for your day-to-day: you will be part of the dedicated devops team of the Medical Credit Fund consisting of its CFO, Business Development manager, a Product Owner and a Data Analyst. Your core responsibility is twofold: 1) to further future proof and standardise the Medical Credit Fund core architecture to run sound operations – anchored in an existing external Loan Management System and linked to our PharmAccess Azure and Snowflake environments; 2) to help craft and design ways to develop and test new lending products for a developing country market, that considers the operational realities while holding the opportunity to really do things differently to make an impact.

Our ideal candidate is a Data Engineer with 3-5 years of experience, preferably with Financial Services industry knowledge, who is as excited about bringing structure to our existing architecture, as well as brainstorming and testing how we set-up new lending innovations that challenge the way data and finance reach those who need it the most (often with partners that are less high tech). We promise no single day will be the same and this is something that excites you: you seek the challenge of continuous learning and are very open to occasional travel to our country offices to touch base with partners on the ground in Kenya, Tanzania, Nigeria and/or Ghana, to see your work in practice.

Responsibilities:

- Developing the MCF technical strategic roadmap and corresponding architecture in close collaboration with the Business Product Owner
- Implementing the technical strategic roadmap and optimizing the MCF business, including but not limited to:
  - Maintaining, developing, and improving the MCF Azure data infrastructure; incl. the various databases, microservices and data pipelines
  - Collecting and aggregating data form several internal and external data sources in smarter ways, batch and stream pipelines, into MCF core financial systems and analytics infrastructure
  - Support new systems implementations to ensure data integrity and compatibility with current architecture and processes
- Go-to-person to outline the technical design of new lending products and the MCF technical requirements that effectively support these products; open and willing to share these with internal and external stakeholders
- Supporting role to ensure key MCF reports are reliably, timely and accurately delivered (mainly via Power BI)
- Take an active role in knowledge sharing with colleagues and - when needed - with our African partner organizations

Qualifications:

- You have 3-5 years of experience in a Data Engineer role
- You have a drive to contribute to the development of better health systems for people in lower income countries; prior experience in Financial Services is a clear asset
- Experience with structuring, maintaining, and improving the cloud data foundations , preferably Azure
- Experience working with relational databases, data modeling, migrations, and optimizations
- Strong knowledge of Python and SQL
- Experience with DevOps and CI/CD pipelines on cloud environments
- Familiarity with REST/SOAP API's
- Hands on experience with Data Orchestration tools, Prefect is a plus; know-how on lambda architecture or alternatives
- Strong communication skills, both verbally and in writing, to be able to align with various stakeholders across borders
- Results oriented, determined and self-driven attitude
- Continuous learner, keeping abreast with new solutions and technologies
- Understanding of Agile - Scrum methodology and ability to drive this way of working is an asset

What do we offer?

Working at PharmAccess means working in a dynamic and international setting; one where we pioneer solutions to change health care in Africa. No day will be the same. Our goal is ambitious, our context is challenging and our passion is tangible. We are a close-knit organisation with 200 employees across our offices. As such we are big enough to make a difference, yet small enough to be very personal and to dare to try out extraordinary things. Your voice will matter and help determine what we do next.

Besides contributing to change the world; in addition we offer:
- A fun team!
- Working with a wide variety of skilled people; from bankers and doctors, to researchers and analysts, to loan officers and quality experts
- Empowerment to try and test new things
- Direct impact on the MCF and broader PharmAccess data and tech foundation
- An international environment spanning some of the most exciting markets in Africa: Kenya, Tanzania, Nigeria, Uganda and more
- Occasional international travel to our home markets in Africa
- Fulltime position (40 hrs a week)

- 25 vacation days a year based on a fulltime position
- Based in Amsterdam; but continuing to work remotely for part of the time post-Covid is possible
- Collective pension scheme and collective health insurance

Keen to learn more or apply?

Get in touch with us: we would love to meet you!

Suitable candidates are motivated to directly apply by sending their CV and motivation to recruitment@pharmaccess.org. The deadline of application for this position is **2 March 2022.**

For more information about our organization and the Medical Credit Fund please visit www.pharmaccess.org and www.medicalcreditfund.org