



Junior Software Engineer

Reports to: Sr. Engineering Manager

Location: Dar Es Salaam, Tanzania

Start Date: November 2021, 6 Month contract with the possibility of continuation.

Who we are

D-tree International is a leading digital health organization. We work to improve the quality of health systems in low and middle-income countries by exploiting digital technology in innovative ways. We are an interdisciplinary organization, working at the intersection of global health and technology. Expertise in both domains is essential to design and deploy systems, which are both appropriate to particular contexts and effective in improving health outcomes. Our work is diverse, ranging from developing tools to supporting governments to engage with the private sector in Liberia, to an emergency referral system providing life-saving emergency transport to women and babies in Tanzania. We are currently supporting the Ministry of Health in Zanzibar to formalize a national digitally-enabled community health system which will utilize digital tools for more than 2,000 community health workers to provide community-level health services at scale.

These systems are cost-effective, significantly improve health systems and save lives. We are looking to hire a Junior Software Engineer in Tanzania to work with our local team and grow our digital expertise to configure and digital systems on multiple software platforms.

Who you are

We are seeking a Junior Software Engineer to work closely with the Sr. Engineering Manager and Engineers to help design, develop, test and maintain mobile applications (Android) and back ends D-tree is using to build digital systems. You will work under operative supervision of the Software Engineers and will grow in your responsibilities and contribution as you gain expertise in our work and tools.

You are someone who is always curious and an independent worker. You are just as comfortable learning new software platforms as you are meeting health workers in a village to understand the user experience. You have a passion for using technology to improve health systems. Maybe you don't have a lot of experience working in technical organizations, but you have personally learned about Android and other environments, and have created experimental applications, or even contributed to open source projects.

What you will do

Your main role will be to work with the D-tree technical team globally and in Tanzania to design, build, deploy and maintain web and mobile applications and dashboards, with a focus on Android platforms for HIS, such as OpenSRP, DHIS2 and CHT. We support NGOs and governments to improve health systems with the technology that best fits the context. Working with our Engineering team, you will understand and define what it takes to build the digital health systems to improve people's well-being and reach our program goals. You will work with platform providers, external software developers and our team to build, configure or extend digital health tools. Once applications are deployed, you will manage troubleshooting and user support and participate in continuous evaluation and improvement.

Who we are looking for

We are looking for a motivated, passionate individual who is willing to wear multiple hats and do what it takes to

make our programs succeed. At D-tree we are trying to push the envelope regarding what is possible with digital health systems. We are working in environments with extreme constraints and are looking for people who are inspired by these restrictions to come up with creative solutions. The following attributes are a general overview, but we will consider individuals who do not meet all of the details below if you have the right skillset and attitude.

Essential qualifications

- Bachelor's degree in a relevant field demonstrating computer science or software engineering skills (e.g. IT, computer science, information systems)
- Excellent analytical skills; ability to think logically and rationally about problems
- Must be able to work independently, multi-task, collaborate with a distributed team
- Excellent written and spoken English
- Committed to solving some of the most pressing development challenges with an interdisciplinary and dedicated team

Desired qualifications

- Experience with Mobile HIS such as OpenSRP or DHIS2
- Experience with Android development

Personal characteristics

- A can-do attitude: You remain optimistic in the face of adversity and creatively solve problems to get things done.
- A fast learner: You are eager to try new tools and you are able to learn about them independently.
- An innovator: You enjoy thinking outside of the box and want to use that thinking to solve pressing global health problems.
- A detail-oriented worker: You pay attention to small details and focus on quality and consistency.

Application information

To apply for this role please fill in the google form [here](#). Only applicants who respond to all questions and include their CV will be considered.

Deadline for applications: Open until filled. D-tree International is an equal opportunity employer.

**** Offer contingent on fully executed funding agreement with prime organization**