

Pre-Work, Technology Intern (Web/Mobile Development)

Location - Mumbai, Maharashtra

Instructions

Please read these instructions carefully before going through the content of the pre-work.

1. The primary requirement for this role is software design and development, either in web or mobile or both. Therefore, for the purposes of this job role, please focus on showcasing your skills in this area.
2. The pre-work should at-least demonstrate the functionality asked in the pre-work. Any relevant enhancements will gain additional points. Unfinished deliverables will be automatically rejected.
3. To share the work, please email your pre-work document to the person who sent you the pre-work. Please follow following format to name your file/folders -
<Candidate_Name>_<College_Name>
4. Pre-work submissions will be followed by an in-person/skype technical interview and an HR interview thereafter. The final offer will be made subject to your performance in the personal interview.

TEACHFORINDIA

Background

Given the strong brand of Teach For India, we receive a lot of volunteering requests (~14000 in 2015-16). Earlier this year, we did a SWOT analysis of how we're leveraging the volunteer workforce, here are some facts and insights from the same:

- Number of TFI classrooms: We have ~884 classrooms across 7 cities which presents a huge opportunity to engage with volunteers.
- Diverse Profiles: Demographic profile of the volunteer candidates is quite diverse, ranging from students (30-40%) to working professionals (~60%) to housewives.
- Duration of Commitment: There is an even distribution of desired duration of commitment ranging from 1 month to 1 year+
- Fellowship pipeline: Most of our volunteers work in the classroom and this experience can be transformative in many ways. By placing more and more of the volunteers who apply in our classrooms, we will be planting the seeds for future Fellows and referrals.
- Leveraging diverse skillsets for non-classroom projects: Since a lot of working professionals apply, this could be an excellent way to invest people by engaging them on part time consulting projects with staff teams.
- Staff pipeline: Volunteers who engage with our organization and get exposed to the work we do could potentially become interested in staff roles. We could also proactively identify good fits from this database and reach out to them for staff roles.
- Lack of Technology use: We do not have an integrated technology system to manage the volunteer applications at present. It is completely manual which becomes very effort and time intensive.
- Inadequate Response Mechanism: There is an absence of a comprehensive response mechanism leading to possible unsatisfactory experience for those who are not selected (which is the majority) that do not hear back.

Problem Statement

We want to create an application that allows Fellows and Staff members at Teach For India to create volunteering opportunities that would be available for any potential volunteer to discover and sign up for the same. The same application can then be extended to gather feedback and keep the volunteers engaged and possibly convert them into candidates for Fellowship and Staff roles.

TEACHFORINDIA

Task

Build a simple application, either on web (should be mobile responsive) or mobile platform that allows the user to do the following:

1. Create a volunteering opportunity. Suggested fields: email, opportunity title, opportunity description, location (includes city-area/address), day/time (from-to/specific day, no. of hours/day)
2. Discover volunteering opportunities in the most intuitive way. Think about different ways in which users can discover these opportunities (Think how different applications today help users discover restaurants, movies, shows, events, etc)
3. [Bonus] Sign up for a particular opportunity they're interested in. Suggested fields: Email, Mobile, Time commitment, short note about why they want to volunteer and/or any previous volunteering experience.
4. [Bonus] Get an email if any user signs up for an opportunity created by him/her, which includes all details filled by the volunteering candidate.

The volunteering opportunities (and sign up info) can be maintained on a NoSQL database (you can use MongoLab free account to use MongoDB as a service or Firebase).

Technology Considerations

1. You can use any tool/program/library to accomplish the above tasks
2. Task #1 and #2 are mandatory. #3 and #4 are optional, but would improve your chances of selection

Pre-Work Evaluation

Your pre-work will be evaluated on following criteria:-

1. Front-end user design and experience (we expect a simple but clean user interface)
2. Database design
3. Coding approach and practices

Sharing your work

Create a document titled <Your_Name>_<College_Name>, it should have the following:

1. URL to a hosted web application or installer file for mobile application
2. URL and credentials to connect to the database you have created in Task #1, housing the data provided.
3. URL to the source code for the work produced (you may use GitHub).

Please email pre-work document to the person who sent you the pre-work keeping internship@teachforindia.org in cc.