



SMS INTERFACE DEVELOPMENT PROJECT

Africa's Voices Foundation is planning to hire a software developer in order to improve its SMS interface design and implement a set of additional features. This person will work with the R&D team for a total of 4 weeks.

Africa's Voices tools for SMS exploration consist mainly of a digital interface that allows researchers and clients to make word queries, create lexicon sets, find words associations, filter messages and visualize trends over time. However, the potential of the existing platform to derive powerful insights is not yet explored as its usability and user experience is fairly limited.

The SMS interface development involves:

- Improving the design of the interface based on UX experience of AVF clients (one week)
- Integrating demographic visualizations (D3 style) with SMS exploration to allow comparisons of demographic groups based on word sets over time (2.5 days)
- Creating new features for SMS exploration such as theme tagging, saving searches and manual thresholds for word filtering (one week)
- Developing interactive visualizations for words associations and topics (two weeks)
- Discussion on how to improving data protection: e.g., implementing data anonymization rules, project-specific passwords and live data feeds from a protected location (2 days)

Total duration: 4 weeks during July and August

Salary: £502.85 per week (£2011.5 total, based on University of Cambridge salary scales, grade 5, point 36 – RA level)

Person specification:

- BA degree in Computer Science, Physics or Maths
- Excellent programming skills in Python
- Experience with HTML5 Canvas
- Experience working with D3 and Tableau
- Good knowledge of data processing and statistical analysis
- Good understanding of network analysis
- Experience with end-to-end UX projects
- Excellent communication skills