

Job Specification: Data Architect Intern, Singapore

Overview of reach52 and Our Work

reach52 is a social enterprise that provides affordable, accessible healthcare to low- and middle-income countries where access is low or non-existent. Essential health services don't reach 52% of the planet, and we're on a mission to change this driven by our purpose 'to make healthcare go further, so every community can thrive'.

We deliver health systems and affordable services in rural regions in three key ways. Firstly, our award-winning reach52 tech platforms and mobile applications that support screening, health worker training, and the delivery of medicines, insurance and consumer health products into disconnected communities. Secondly, by equipping members of the communities to run these services for their communities. Thirdly, by partnering with governments and foundations to deliver targeted public health solutions, and the private sector to deliver the affordable medicines, health products, diagnostics and insurance the communities need.

This is not a stop gap, but rather a sustainable business model for the communities and our public and private sector partners. Our existing partners include J&J, Novartis, Gilead, Medtronic Labs and Philips amongst others, and we have won several awards including the UN's World Summit Awards, Accenture's Health Tech Challenge Asia and the recent BuildforCOVID19 hackathon organised by Facebook.

Overview of the Role

At reach52 we work towards a single vision: delivering healthcare to communities that have so far been deprived, which is still 52% of the world population.

As a Data Architect Intern you will play a pivotal role in supporting this vision, by helping us review and revamp reach52's data architecture across its applications and geographical reaches, focusing on two crucial aspects: foundational digital IDs for all our users, and overall data integrity across our products.

This is a rewarding role requiring an interdisciplinary background across data architecture, data science and software development. You will collaborate with our teams globally, both on the technology and operational side to review both the architecture and the operational processes on the ground that can lead to the creation of unique digital IDs for our users around the world, as well as the overall data flow and integrity across our applications.

You will be expected also to learn, setup and test global open source projects such as the MOSIP project, which are being deployed in several countries as national platforms for the digital identification of citizens. You will run an internal reach52 pilot aimed at assessing the potential to integrate MOSIP in the current Reach52 architecture.

Finally, you will continue and complete an ongoing data integrity review project, aimed at assessing and identifying any data integrity and quality gaps in our current data infrastructure and designing solutions to address them.

Title: Data Architect Intern

Employment: Internship

Start Date: ASAP

Location: remote work, but head office is in Singapore

Reporting to: Chief Executive Officer/ Data Scientist

Role Scope and Responsibilities

The successful candidate will be expected to:

- Review of our current database architecture (conceptual and logical schemas) and data flow (between applications), design and propose improvements aimed at increasing data integrity and user ID integrity.
- Review the content of our current data repository across existing apps to assess it for completeness, integrity and quality, and propose modifications to existing apps and database schemas to improve and refine further.
- Collaborate with our data science internal and external teams to finalize current prototypes of data science dashboards.
- Learn about the MOSIP project, and setup Reach52 test pilot of MOSIP architecture as potential foundational ID system for Reach52, perform SWOT analysis of MOSIP system.

Person Specification

The ideal candidate should have:

- A Bachelor's Degree or currently taking up Computer Science, MIS, Data Science or similar discipline.
- Practical database design and development experience in any industry
- Basic data science skills such as use of R and/or Python to summarize and analyze simple datasets
- Basic statistical skills to QC datasets for missingness and overall data quality
- Fluency in spoken and written English
- Experience or passion in the fields of social impact and healthcare preferred
- Preferably has experience in project management and good quality of presentation or communication skills preferred

Interested candidates may send in their CV and cover letter to operations@reach52.com