**Data Engineer Assignment:**

We are interested in understanding how you approach and build data pipelines. We are evaluating candidates on their ability to build a functional pipeline, their ability to demonstrate technical knowledge of a wide suite of data concepts, and problem-solving / creativity.

1. Download the attached clinical documents to your local machine.

***\*\*\*Note that you will need to download the c-cda’s from s3 to your local machine. The link in the ccda\_pre\_signed\_urls file will expire in 8 hours.\*\*\****

1. Analyze and parse the content from the documents into their respective domains.
   1. Medications
   2. Problems
2. Combine clinical data with other supplied claims data.
3. Store the combined results in the output of your choice (e.g. Database (sqlite) or Flat File (csv, parquet))
   1. You can assume that each document represents one patient/applicant.
   2. Prepare the output so it is easy to import into Databricks for review during the technical interview
4. Describe a pipeline to combine all the prior steps.
5. If there are additional details you’d like to include to help us understand your thought process or next steps in developing this pipeline please provide that as well
6. Be prepared to describe how you’d structure this data in the pipeline to feed into a Common Data Model format for consumption in a Data Warehouse / Lakehouse with a focus on FHIR/HL7

**Requirements:**

* The Milliman IntelliScript team should be able to successfully run code you submit prior to the technical interview
* Be prepared to present your findings to a group of people
* Share git repository of final project code.

**Additional Information:**

* We recognize that there may not be enough time allotted to build out every feature in your data pipeline that you would recommend. However, be prepared to justify any decisions you have made and discuss any additional improvements you would recommend.
* If you have any questions or need clarifications, please email [josh.arenz@milliman.com](mailto:josh.arenz@milliman.com), [andrew.cummins@milliman.com](mailto:andrew.cummins@milliman.com), [lauren.blasch@milliman.com](mailto:lauren.blasch@milliman.com), and [nick.arquette@milliman.com](mailto:nick.arquette@milliman.com)