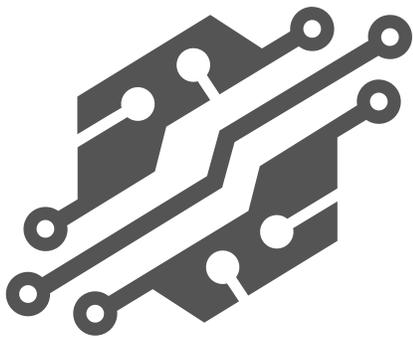


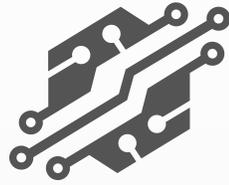


EMPLOYMENT SERVICES



TECHSKILLS SHOWCASE 2022

CHALLENGES



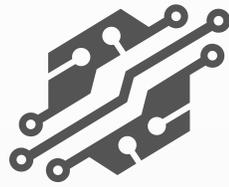
CHALLENGE #1

A Multicultural Atlas of Regina

How can we present the multicultural nature of the city to current and future residents?

Your team will need to collect data on diversity and multiculturalism (language groups, nationalities, ideological/religious groups, ethnicities, etc.) and visualize it on a web dashboard.

You might start with some Statistics Canada census data and then visualize it using a library or platform of your choice, making it available to view on the web.



TECHSKILLS
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CHALLENGE #2

City of Regina Open Data Accessibility & Ease of Use

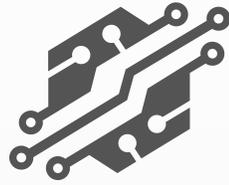
The City of Regina's Open Data Website has a number of interesting datasets available as simple file downloads.

Many of them require you to download the entire dataset and then search it for what you're looking for.

For example, there is a spreadsheet listing all known Regina addresses with city-owned lead water line connections.

Rather than downloading the entire dataset it might be easier, for example, to text your address to a phone number and receive a YES/NO response as to whether or not your address is known to have a lead water line.

Your team will need to take one or more files from the City of Regina's Open Data site and make the information contained in the file(s) easier to use.



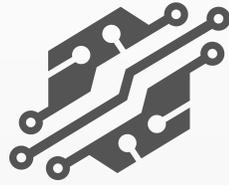
TECHSKILLS
SHOWCASE 2022

CHALLENGE #3

Citizen Engagement & Transparency

Oftentimes residents of Regina hear about important decisions made by their representatives only after the fact when they are reported in the media. How can residents of the City of Regina know that something they care about is being discussed at an upcoming City Council meeting?

Set up a system that will obtain upcoming City of Regina City Council agenda documents on a regular basis. Generate an alert of some kind (tweet, e-mail, etc) when a term of your choosing is mentioned in the City of Regina agenda. Make sure to include a link back to the original PDF document!



RESOURCES

Citizen Engagement & Transparency

1. <https://www.elastic.co/cloud/>
2. <https://superset.apache.org/>
3. <https://bokeh.org/>
4. <https://vega.github.io/vega/>
5. <https://www.statcan.gc.ca/en/start>

City of Regina Open Data Accessibility & Ease of Use

1. <http://open.regina.ca/>
2. <https://www.twilio.com/try-twilio>
3. <https://postgrest.org/en/stable/>

City of Regina Open Data Accessibility & Ease of Use

1. <http://reginask.iqm2.com/Citizens/default.aspx>
2. <https://pypi.org/project/requests/>
3. <https://tika.apache.org/>
4. <https://developer.twitter.com/en/docs/twitter-api/tweets/manage-tweets/api-reference/post-tweets>

The above resources are available for you to use if you wish. The goal is to showcase your skills, so if you can, use what you know! That being said, it's always great to show off picking up a new tool or skill and running with it. Feel free to modify the challenges slightly to best showcase your group's skills.