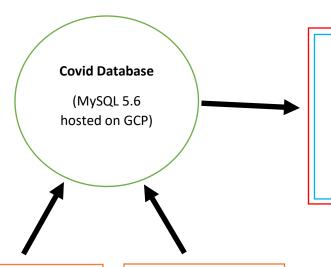
Database

Python

FastAPI

User facing



Covid API

(FastAPI app deployed on Google Cloud Run)

Global Data Loader

(Python Script in a Flask App deployed on Google Cloud Run pulling data collected by Johns Hopkins University/WHO).

Runs nightly at 11p on a Google Cloud Scheduler job (chronjob)

US Data Loader

(Python Script in a Flask App deployed on Google Cloud Run pulling data collected by Johns Hopkins University/WHO).

Runs nightly at 11p on a Google Cloud Scheduler job (chronjob)

Modeling App

(Python script in a Flask App deployed on Google Cloud Run using fbprophet to predict Covid cases/deaths in the country and all 50 states. Outputs Pandas Dataframes as JSONS)

Website App

(Flask app deployed on Google Cloud Run serving public facing website via Jinja templates and with wtforms and Disqus elements)

Streamlit App

(Streamlit app deployed on Google App Engine serving visualizations and raw data from user defined parameters that trigger functions in the modeling app)