

Simple Coding Homework Assignment

These positions are hands-on and competency with coding to basic REST interfaces is assumed. Before we talk to candidates in person we'd like to have you do a little homework assignment. This should take you about 30-60 minutes at most.

There are several optional additional parts that are extra-credit. They are not required, but if you want us to know the extent of your skills they are highly recommended.

Please follow these instructions *exactly*. You may use a programming language of your choice. Note that choosing an appropriate language is an indicator of seniority. For this assignment, we'd really rather not see any bash or curl scripts.

Write a command line interface (CLI) program for the Mac or Linux shell that queries the IPStack API and obtains the latitude and longitude of an IP address. Consider Unix principles when you do this and ensure that the output of your tool can be used as an input to another CLI tool. You will need to sign up for a free API key to do this assignment.

Here are the requirements:

- Command line only - no GUI wanted or needed. Please don't do a GUI
- Must run on linux or MacOS terminal at the command line, accepting a command line parameter and returning the data desired
- Any language you choose other than bash or curl
- You may not use any libraries that implement this API for you
- The challenge is to do a simple REST implementation of this protocol yourself
- Consider security in your solution, even if it's just discussing it in your README
- Program must accept a command line parameter of an IP address
- Program must query the API for a result over the network
- Program must output the latt/long of that address in some useful way to the user at the command line

Optional Extra Credit

- Deliver the tool as a docker container

Additional MUST-HAVE Requirements

- Show your code - if you deliver a container the work to make it into a docker container must be present
- All source code for the program and Docker file must be in the git repository
- The git repository must be in your github.com account and publicly accessible (github.com is free for public repos)
- You should assume we will clone your repo and test it personally
- You should "think unix philosophy" and consider how this kind of tool would build your toolbox
- Provide some kind of README explaining your work and how others would use it
- This is an example of your work. Don't make a career out of it but take the time to do a decent job

We look forward to seeing your response.