

Coding Sample for Crogl Team Members

This doc exemplifies a problem that Crogl dev teams come across routinely. If this is the kind of work you enjoy doing and you excel at it, you will love working with the Crogl team.

Problem statement

As a software developer I want to know if the code that I am using is vulnerable to known vulnerabilities. I am building an application that gathers vulnerability data, analyzes my code and identifies vulnerabilities in my code. I want a teammate to help me with part of this project.

I want you to create a script that downloads all github security vulnerabilities from the [Github Advisory Database](#). Then zips up the advisories by severity: 4 zips for each category of severity: low, moderate, high, critical.

Extra credit for generating a csv file with a row for every vulnerability and a set of attributes summarizing the key information for each vulnerability. Extra credit for CSV to contain a field called KEV. If the vulnerability is in the [CISA Known Exploited Vulnerabilities Catalog](#), the KEV field value will be 1, Otherwise the field will be empty.

Commonly asked questions:

How much time do I have?

You can spend as much time as you like w/ in a 3 day period.

What's the deliverable?

A code repo or files that the Crogl team can access to review your code, execute your code and any accompanying work.

What do you mean by accompanying work?

A good software package might include the software, test code, README and applicable license file/s. Sometimes it is useful to include a diagram in the README.

Will Crogl own the code and other items that I write and submit?

No. Whatever you create is yours. By sharing the code with the Crogl team, you are giving us the right to review it and execute it.

What programming language should I use?

Python is preferred but you will get full credit for using python or go-lang or javascript.

What specific zip file format should I use?

You can use any zip format as long as your code can unzip the file. The more common your format the more usable your work will be.

Can I ask clarifying questions?

Yes, of course. You are welcome to ask questions via email. At the same time we invite you to exercise your own creativity. This is the kind of open ended problem that Crogl team members work on every day. You are a professional developer, you are encouraged to make choices that make sense to you.

Are there any restrictions on tools or IDE's or assistants I can use?

No. Use the best tool for the job to achieve a delightful outcome.