Hello,

Thank you for your interest in Halo Investing!

Before we move forward in the interview process we would like you to complete a code challenge. This allows us to get a better understanding of your skills and it allows us to see were you shine. Specifically, we want to get a sense of how you approach a coding problem in a professional setting. Give it a try and let us know what you think.

We don’t expect this to take very long (please don’t spend more than a few hours on it), though we understand that you also have ongoing obligations, so please let us know if you will need 1 week or 2 weeks to complete the challenge.  The best way to submit your result will be to make a public Git repository and send us the link via email - please let us know if you have any questions.

Sincerely,

The Halo Team

**Halo Fullstack Coding Challenge 2018**

***Part 1*** - Backend: write a Python Flask microservice that has two API methods: “get” and “set”.  The method “get” takes a “key” argument and returns the current value associated with the key, if it exists.  The method “set” takes two arguments, a “key” and a “value”, and sets the value of “key” to the specified value.  The data should be persisted to a database using sqlalchemy.

***Part 2*** - Frontend: design and code a front end for the above key/value API service.  Users should be able to load an HTML page and get/set keys.  Use HTML, CSS, and Javascript/JQuery as necessary.

***Part 3*** - Advanced: add a user model to the above service.  A user should be able to sign up, log in, and log out.  While logged in, they should only be able to interact with and modify keys they have created - do not allow users to see or modify another users key/value pairs.  Logged out users should not be able to do anything other than log in.