Silvertrain AI Take Home Coding Challenge

*Note: This challenge is designed to take 1-2 hours, maximum.*

**Challenge:** Design a REST API endpoint that provides auto-complete suggestions for the names of large cities.

**Functional Requirements:**

* The endpoint is exposed at /suggestions
* The partial (or complete) search term is passed as a querystring parameter q
* The caller's location can optionally be supplied via querystring parameters latitude and longitude to help improve relative scores.
* The endpoint returns a JSON response with an array of scored suggested matches.
  + The suggestions are sorted by descending score.
  + Each suggestion has a score between 0 and 1 (inclusive) indicating confidence in the suggestion (1 is most confident).
  + Each suggestion has a name which can be used to disambiguate between similarly named locations.
  + Each suggestion has a latitude and longitude.

**Design Requirements:**

* You can use the language and technology of your choosing*.* The goal here is to understand how you would build a solution, not your proficiency in any particular language.
* End result should be deployed on a public Cloud (such as a free tier on Heroku or AWS).

**Suggestions:**

* Build your solution using clean, maintainable code that we would want to contribute to in a production environment.
* Focus on documentation and maintainability. Include unit tests.
* Focus on showcasing your strengths - what will differentiate your end product?

**Can I use a database?**

It is acceptable (but not required) to use an external system such as a database or Elastic index in your solution. That said, the goal is to see the code you’ve written and the process you’ve taken, and a thin API on top of a database will not give us much to go off of.

If you are going to include an external search system, have some fun with it!