



As part of our interview process, we would like you to take some time to write a small web application to analyse the following CSV file which contains a set of random numbers between 0 and 100. Ideally this is expected to take 1 – 2 hours.

<https://drive.google.com/file/d/1r9sicGnyRXMFWahtzqVBbsuyz-KdeYtS/view>

Using C#, write some code to:

Upload and Read the file contents into a SQL Database

Avoiding built in methods like .Sum, .Average etc, write your own algorithms to

Calculate the arithmetic mean

Calculate the standard deviation

Compute the frequencies of numbers in bins of 10 (0 to < 10, 10 to <20 and so on.)

Please build a test web application and submit your C# project to us. Feel free to use any type of web app. (Angular.JS/Angular 6+/MVC/React.js/Vue.js)

Please either upload your finished project to GitHub or file sharing service.

If you have any questions feel free to drop me an email: j.cole@maritimetransport.com or contact the agency you are working with.

For reference, Maritime are currently running,

- Full Microsoft Stack
- Entity Framework
- Angular / MVC
- Azure DevOps