(Associate) Development Consultant: Remote assessment

Applicant Name: Andrew Eklund
Date: 8/3/2020

1. Suitability.   Please state your reasons for applying for this position. Outline the skills and experience you have gained that you think are relevant to the job you are applying for. What makes you suited for this position?
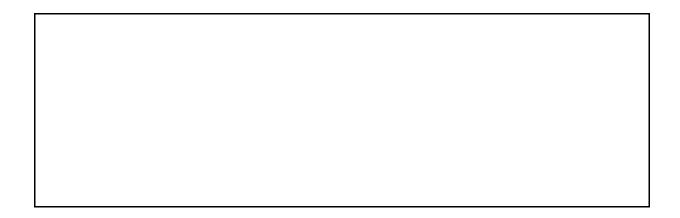
I have a formal education in software engineering including software architecture and design patterns. Recently I had the chance to work on a small team developing a desktop app from the ground up. For this project, we wrote code primarily in JavaScript/HTML/CSS using the Electron framework and turned user-stories into over 40 pages of documentation as part of an extreme-programming approach. Given this experience I will have no problem collaborating and communicating with others in a software development environment.

Beyond my technical experience, I bring a strong work ethic and moral character to the table, exemplified by past employee of the month and Eagle Scout awards which I will always be proud of.

I am a quick learner comfortable with learning and applying new technologies as well as someone who is personable and capable of bridging the gap between customer and code. For these reasons I think I would be an excellent fit for the position and a valuable contributor to any project I am assigned to.

2. Situational Evaluation.   Your manager asks you to prepare training for a customer who has just implemented an Esker solution for Accounts Payable automation. Describe your approach to preparing and delivering the training.

In order to prepare myself, I first make sure I have a thorough understanding of the customer's situation and needs and the software, including experience from the user's point of view beforehand. When I deliver the training, I start by helping the customer get a lay of the land so they feel comfortable navigating the software. Next, I guide the customer through the actions they will perform most often starting with simpler tasks and working our way up. The entire time, I make sure that the customer is performing the tasks without my direct intervention as long as possible. As the customer is more used to the software, I encourage their aptitude with praise and enable them to work more independently, primarily offering my knowledge as a resource when necessary until they are fully competent using the Esker solution.

3. Programming

Write a program that takes as entry level parameter a text file and generates a report describing the file contents, see sample report below.

The program must be completely functional.

Along with your source code, please *include a sample input file that provides data to thoroughly test your code, the associated output and* the amount of time spent completing the code.

Example of report to generate:

File name: D:\temp\file.txt
Number of lines: 85
Number of characters (total): 1441
Number of letters: 782
Number of figures: 17
Number of other characters: 642
Number of words: 195
Number of 1 letter words: 56
Number of 2 letters words: 27
[...]
Number of 16 letters words: 2
Number of 19 letters words: 1