AutoNation

Screening Test/Interview Questions for Software Engineer (Remote) Position

Instructions: Please precede all your answers with the question you are answering.
Use acronyms only after you've explained them.
Use correct spelling and grammar.
Be sure to write your name and the interviewer's name.

Candidate's Name:

Interviewer's Name: Marc Cannon Ap

1. Are you currently employed?

2. Can you tell us some basic information about yourself?

3. How has your education prepared you for this role?

4. Describe the process your team currently implements for completing projects.

What works well? What would you change and why?

5. Tell me about a time that you had to collaborate with other people on your team or other teams to solve a complicated problem.

6. How comfortable do you feel reviewing code written by others? What process do you follow when reviewing someone else's code?

7. Describe what you believe are the key principles of software engineering and what are your most used design patterns and in what contexts do you use them?

8. How do you explain technical challenges to stakeholders who do not have technical knowledge or backgrounds?

9. What is "Agile" software development and what are your thoughts on it?

10. Describe the last project you worked on, including any obstacles and your contributions to its success.

11. Describe a difficult bug you were tasked with fixing in a large application. How did you debug the issue?

12. Which project management tools do you feel are most useful in your role as a software engineer and what aspect of our company, product or team interests you most?

13. What are your most used design patterns and in what contexts do you use them?

14. Will you be able to devote 20 to 40 hours of your time weekly for the company?

15. How long would you expect to work for us if hired

16. How much will you request per hour if you are hired?

About the role:

We're looking for a highly-skilled software engineer to join our program and network design team. Our ideal candidate will have expert knowledge of software development processes and solid experience testing and evaluating current networking systems. If finding issues and fixing them with beautiful, meticulous code are among the talents that make you tick, we'd like to hear from you.

Roles and Responsibilities:

- Design and build tools and frameworks to automate development, testing deployment, management and monitoring of the company's 24x7 services and products

- Plan and scale distributed software and applications, applying synchronous and asynchronous design patterns, write code, and deliver with urgency and quality

- Collaborate with global team, producing project work plans and analyzing the efficiency and feasibility of project operations, while leveraging global technology stack and making localized improvements

- Track, document, and maintain software and network system functionality— both internally and externally, leveraging opportunities to improve engineering productivity

- Give a high level of attention to creating software and networking platforms free of faulty programming, keeping developers in step continuously without compromising site reliability

- Work with product managers and user experience designers to influence the strategy for the next wave of product features and system capabilities, identifying the best way to deliver capabilities

Can you handle all of these duties effectively?

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