Interview Questions

INTRO QUESTIONS

Now that the position has been describe to you, please describe how your background relates to this position.

TECHNICAL QUESTIONS

JAVA

- How would you rate your skill set from 1-10 with 10 being expert?
- Can you explain to me how garbage collection works?
- Can you explain how to ensure that a resource gets cleaned up?
- Can you describe what the reflection library is used for?
- How does serialization work?
- Do you know what java obfuscation entails?

OO

- Can you describe the difference between an interface and an abstract class?
- Can you name some classes for an interface and abstract class for a class called Poodle?

UML

- How would you rate your skill set from 1-10 with 10 being expert?
- Can you name a couple of UML diagrams commonly used in software development?
- What diagrams do you typically use to describe your designs?
- Can you name and explain some design patterns?

DevOps

- How would you rate your skill set from 1-10 with 10 being expert?
- Have you used docker before? Can you describe it's benefits?
- How would you create a docker image.
- What's the difference between a container and image.
- How can you log into a docker container? What is
- How do you manage your exposed ports?

Kubernetes

- How would you rate your skill set from 1-10 with 10 being expert?
- Can you tell me what Kubernetes is used for?
- Can you name some of the objects used in Kubernetes? Such as a POD.
- How do you expose a service within and outside of the cluster?
- Can you tell me what an ingress controller is used for?
- Best practices?
- Have you ever done a bare metal deployment? Challenges? Persistent Storage?
- Can you use a load balancer service in a bare metal deployment?
- Can you describe what secrets are and why you would use them?
- SSL/TLS between services?
- How can you use SSL certificates in Kubernetes?
- Describe how to upgrade your services running in your cluster.
- Blue/green/rolling deployment...
- Use helm?
- How do you test your kubernetes yaml files?

Git

- Have you used Git before?
- Can you list a few git commands or tasks?

JAVASCRIPT

- How would you rate your skillset from 1-10 with 10 being expert?
- How do you generate debug logs in javascript?
- How does scoping work in javascript?

SECURITY

- Do you have any experience with software security?
- Can you explain how SSL helps protect the payload?
- Can you explain what a man in the middle attack is?
- Can you describe the difference between symmetric /asymmetric keys?
- Can you explain SQL injection?

Web Development

- How would you rate your skill set from 1-10 with 10 being expert?
- Can you tell me how sessions are managed/stored in a web application?
- How can you store information in the user's browser?

Databases/SQL

- How would you rate your skill set from 1-10 with 10 being expert?
- Can you tell me four of the main SQL commands?
- What databases have you worked with?
- Have you worked with data persistance libraries (JPA)? Can you describe the pros/cons?

Software Development

- What steps do you take when starting a new software development task?
- Can you name 2 things that you can do to ensure that the software you develop is robust and maintainable.
- How do you keep your knowledge of software development up to date
- What is your comfort level writing design documentation and presenting?
- What kinds of information do you feel is important in order to fully describe your design?

Testing

- What aspects of Test/QA are important to ensure that the product released is of good quality?
- What do you do with vague requirements?
- How do you know if the product you are releasing is of good quality? Beside requirements?
- How do you raise high priority issues?
- How to get more time to test?
- Do you have any experience with software security? ie. Ask security questions.. ssl etc.
- Do you have experience with cloud? Deployments to on-premise clouds? Examples?
- Do you have experience with mobile? Examples?
- Do you have experience with deployment to embedded devices? Examples?
- Experience with Java/OO?
- What frameworks have you worked with for defining tests and recording results?
- What frameworks have you worked with for performing performance testing?
- What things are required to have completed prior to product release?
- How do you go about defining a test case?

PERSONALITY QUESTIONS

- How do you handle conflict? Do you have any strategies that you apply?
- What steps have you taken to convince a reluctant team member to listen to your advice? Can you give an example?
- Where do you see yourself in 5 years? What are your aspirations?
- You have been tasked with designing a coffee machine for your car. Design it.

MANAGER QUESTIONS

- In the event that you have overcommitted to a customer, how would you manage the situation?
- In the event that it has become inevitable that you will need your staff to work overtime, how would you handle this?
- What strategies do you employ to ensure that you do not take on more work than your team can do?

PERSON MANAGER

- You have a employee who is not performing? How might you handle it?
- One of your employees is disruptive and has made things uncomfortable for your other employees? What do you do?
- How do you motivate/energize/excite your employees?
- How do you ensure that your employee is achieving their career objectives?

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