**Speed Interviewing Questions**

How to Conduct a Speed Interview

* 10 minutes for Questions, 5 minutes for feedback
* Only pick questions you know the answer to
* Select 1-2 general questions, the rest from the technical sub-sections
* Please give feedback on the following
  + First impressions (poise and eye contact)
  + Nonverbal behavior, body language
  + Verbal behavior (How the answer is given, clarity of speech)
  + Actual Answer content (Did they give the right answer)

**ATTN: Non-technical interviewers should refer to the sections on General and Behavioral Questions. Don’t ask a question if you do not know the answer.**

For General/Behavioral Questions: The STAR technique is a useful strategy for responding to interview questions that require an anecdote. It’s an excellent way to organize your thoughts. There are four steps to answering using this technique:

* **(S) Situation**. Describe the situation in which the event took place.
* **(T) Task**. Describe the task you were asked to complete. If there was a particular problem or issue you were trying to solve, describe that here.
* **(A) Action**. Explain what action you took to complete the task or solve the problem.
* **(R) Results**. Explain the result of your actions. For example, if your actions resulted in completing a task, resolving a conflict, improving your company’s sales record, etc., explain this. Try to focus on how your actions resulted in a success for the company.

**General**

What are your weaknesses?

What are your strengths?

How familiar are you with Javascript?

Do you work best alone or on a team?

What was/is the best part about your most recent job?

Where do you see yourself professionally in 3-5 years?

Why are you leaving your current job and moving into programming?

**HTML**

What does a doctype do?

What does semantic mean to you?

When would you use a div tag vs section,article,main,header,footer,aside,nav?

**CSS**

What is the difference between classes and IDs in CSS?

What are the components that make up the CSS box model.

What are some ways that inline elements are different from block level elements?

How do you center a block level element?

What are media queries?

What does `\* { box-sizing: border-box; }` do

**Git**

What is Git and why should you use it

What's the difference between Git and GitHub?

**JS**

What's the difference between JS and jQuery?

Why would you use Event Delegation over Event Listeners

What is hoisting? How does it work?

"What is prototypal inheritance? How does it work?"

What is AJAX and why do we use it?

What tools and techniques have you used when debugging JavaScript?

How do methods differ from functions?

**Node**

What happens when you type a URL into your browser and hit enter? Walk me through the steps leading to a web page appearing.

What methods are supported by REST?

What's the difference between a PUT and a POST request?

Why would you choose Node for a project? What kinds of projects is Node particularly well-suited for?

You're given the task of testing the Facebook URI `/friends`. It's used across the Facebook product to return all sorts of information about a user's friends, such as their name, profile photos, and locations, and it's crucial that it always work. Discuss how you would approach testing it. What's important to test and what kind of tests would you write.

What is middleware?

How many threads does node have ?

Is Node primarily a sync or async programing language?

What are some differences between a SQL database and a NoSQL database?

What is Mongoose? What purpose does it serve?

What's the difference between Find and FindOne in Mongoose?

**React**

How does the React eco-system work with the common MVC pattern that developers are used to?

What is a component?

How do you decide what goes into a single component?

What does it mean when a component is "stateful"?

What is an example of a stateless/static component?

What is JSX used for, and is it required?

What are some differences between HTML and JSX?

What happens during the lifecycle of a React component?

Which method is always required inside a React component?

What is the difference between state and props?

What is the virtual DOM?

In a React application, where should you store the state?

Using redux, what is the difference between an action and a reducer?

In React, a component's render method can only render a single root node. Why?

**Comp. Science Fundamentals**

How might you determine the efficiency of an algorithm? Why is it important to know this?

Explain the Time Complexity and give an example of each:

O(1)

O(N)

O(N^2)

O(log N)

Explain at least 3 differences between a linked list and an array

Explain the difference between a Binary Tree and a Binary Search Tree

Explain these types of tree traversal:

In-order

Pre-order

Post-order

**Data Science**

What is the difference between data science and machine learning?

Which language is better for analyzing text, python or R?

Why is data cleaning vital for analysis?

What is a logistic regression? Can you explain a time when you use logistic regression?

What is the difference between univariate, bivariate, and multivariate analysis?

What do you understand by the term normal distribution?

What is K-means? How can you select for K-means?

What does a P-value signify about statistical data?

What is the Difference between Supervised Learning and Unsupervised Learning?

**Behavioral Questions** *(Use if you have a non-technical background or if there is extra time)*

Give an example of an occasion when you used logic to solve a problem.

Give an example of a goal you reached and tell me how you achieved it.

Give an example of a goal you didn't meet and how you handled it.

Describe a stressful situation at work and how you handled it.

Tell me about how you worked effectively under pressure.

How do you handle a challenge?

Have you been in a situation where you didn't have enough work to do?

Have you ever made a mistake? How did you handle it?

Describe a decision you made that was unpopular and how you handled implementing it.

Did you ever make a risky decision? Why? How did you handle it?

Did you ever postpone making a decision? Why?

Have you ever dealt with company policy you weren't in agreement with? How?

Have you gone above and beyond the call of duty? If so, how?

When you worked on multiple projects how did you prioritize?

How did you handle meeting a tight deadline?

Give an example of how you set goals and achieve them.

Did you ever not meet your goals? Why?

What do you do when your schedule is interrupted? Give an example of how you handle it.

Have you had to convince a team to work on a project they weren't thrilled about? How did you do it?

Give an example of how you've worked on a team.

Have you handled a difficult situation with a co-worker? How?

What do you do if you disagree with a co-worker?

Share an example of how you were able to motivate employees or co-workers.

Do you listen? Give an example of when you did or when you didn't listen.

Have you handled a difficult situation with a supervisor? How?

Have you handled a difficult situation with another department? How?

Have you handled a difficult situation with a client or vendor? How?

What do you do if you disagree with your boss?